FUNAI

Portable Blu-ray Disc Player

PB1-M200

Owner's Manual

For Customer Use:
Carefully read the Model No. and Serial No. located at the back of the unit and enter the information below. Retain this information for future reference.
Model No. _____
Serial No. _____

INTRODUCTION

Safety Instructions

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The important note and rating are located on the rear or bottom of the cabinet.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The symbol for CLASS II (Double Insulation)

Laser Safety

This unit employs a laser. Only qualified service personnel should remove the cover or attempt to service this unit, due to the possibility of eye injury.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED
DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS (IEC60825-1/Class 1M)

LOCATION: INSIDE OF THE DISC LID

Power Supply

The power supply is connected and the unit is live when the mains cable is plugged into a 100-240 V, 50/60 Hz AC outlet. To operate the unit, press **[STANDBY/ON]**.

WARNING: LIVE PARTS INSIDE.
DO NOT REMOVE ANY SCREWS.

Caution

1 Do not attempt to open the cabinet. There are no user serviceable parts inside. Refer all servicing to qualified service personnel.
2 Slots and openings in the cabinet at the sides and underneath are provided for ventilation. To ensure reliable operation and to protect the unit from overheating, these openings must not be blocked or covered.
Avoid installation in enclosed spaces such as bookcases unless suitable ventilation is provided.
3 Keep the unit away from radiators and other heat sources.
4 Avoid use near strong magnetic fields.
5 Do not push objects of any kind into the unit through the cabinet slots or openings as they could touch electrically live parts or short circuit parts resulting in a fire or electric shock.
6 To prevent fire or shock hazard, do not expose this apparatus to dripping or splashing, no objects filled with liquids, such as vases, should be placed on the apparatus.
7 Do not stand the unit vertically. Use the unit in a horizontal (flat) position only.
8 This product is in Stand-by mode when turned off while the mains cable is connected.
To completely shut down the unit, you must disconnect the mains cable.
9 Do not place any combustible objects on the device (candles, etc.).
10 Before moving the unit, be sure to remove any discs and unplug the mains cable from the AC outlet.
11 Disconnect the mains plug to switch off when the unit becomes faulty or not in use.
12 The mains plug shall remain readily operable.
13 Read the manual instructions to ensure correct and safe installation and interconnection of the unit in multimedia systems.
14 Keep the distances 20 cm around apparatus of ventilation openings.

A NOTE ABOUT RECYCLING
This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

This product consists of materials which can be recycled and reused if disassembled by a specialised company.

Following information is only for EU-member states:
The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Following information is only valid EU-member States:

Disposal of batteries and/or accumulators
The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste. If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol. By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

Make your contribution to the environment!!!
- Exhausted batteries do not belong in the dustbin.
- You can dispose of them at a collection point for exhausted batteries or special waste.
- Contact your council for details.

Do not place the unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.

CAUTION:	Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
WARNING:	Batteries (Battery pack or battery installed) shall not be exposed to excessive heat such as sunshine, fire, or the like.

Installation Location

For safety and optimum performance of this unit:
- Install the unit in a horizontal and stable position.
- Keep the unit away from electronic equipment such as an amplifier, TV, etc. to prevent warping, damage, fire and malfunction.
- Do not place anything directly on top of the unit.
- Shield the unit from direct sunlight and keep away from sources of intense heat. Avoid dusty or humid locations. Avoid locations with insufficient ventilation for suitable heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.

Avoid the Hazards of Electrical Shock and Fire

- Do not handle the mains cable with wet hands.
- Do not pull on the mains cable to disconnect it from the AC outlet. Grasp it by the plug.
- If, by accident, water is spilled on the unit, unplug the mains cable immediately and take the unit to an authorised service centre for servicing.

Moisture Condensation Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, after heating a cold room, or under conditions of high humidity. Do not use the unit for at least 2 hours to allow the inside to dry.

About Copyright

Unauthorised copying, broadcasting, public performance and lending of discs are prohibited. This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

Notice for the Progressive Scan Outputs

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 480 or 576 progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 480p or 576p product, please contact our customer service centre.

Note for Batteries

Lithium Ion Battery Pack :

- Do not leave the battery pack in a car exposed to direct sunlight for a long time with no ventilation.
- Do not use or connect the battery pack with other devices.
- Do not touch the plug terminals (+ / -) with metal objects.
- Do not use this unit outside when raining or snowing. (The battery pack is not waterproof.)
- Please prevent any foreign matter (dirt, liquids, etc.) from getting inside of the unit.
- Do not disassemble, remodel, heat or burn the battery pack.
- Detach the battery pack is not going to be used for a month or more.

Button-type Lithium Battery :

- Do not leave the battery in a car exposed to direct sunlight for a long time with no ventilation.
- Do not recharge, short-circuit, heat or burn the battery.
- Remove battery from battery compartment of the remote control that is not going to be used for a month or more.
- Do not touch the terminals (+ / -) with metal objects.
- Keep the battery out of reach of children to prevent swallowing.
- When disposing of used battery, please comply with governmental regulations or environmental public rules that apply in your country or area.

Warning

- Risk of fire and burns. Do not disassemble. Do not heat the batteries above the following temperatures or incinerate.

Lithium ion battery pack: 60°C
Button-type lithium battery: 100°C

- Do not rest the unit on your lap for a long time while using it. The unit can become hot and cause burns.
- Never store or use this unit, battery pack and AC adapter in a locked and unventilated vehicle. (where excessive internal temperatures may be encountered.) Doing so may result in fire or damage to the exterior components and internal parts.

Maintenance

Cleaning the Unit

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use solutions containing alcohol, spirits, ammonia or abrasives.
- Disconnect the AC adapter and detach the battery pack when cleaning the unit.
- Rubbing or wiping the LCD screen and around the LCD screen with hard cloth may scratch the surface.

Cleaning Discs

If a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre to the outer edge. Do not wipe in a circular motion.
Do not use solvents such as benzine, thinners, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analogue records.

Disc Handling

Handle the discs so that fingerprints and dust do not adhere to the disc surfaces.
Always store the disc in its protective case when it is not in use.

Servicing

If the unit becomes inoperative, do not try to correct the problem by yourself. There are no user serviceable parts inside. Turn the unit off, disconnect the AC adapter and detach the battery pack, and consult your dealer or an authorised service centre.

Cleaning the Disc Lens

If the unit does not perform correctly even though you have referred to "Troubleshooting" and the relevant sections in the Owner's Manual, the laser optical pickup unit may be dirty. Consult your dealer or an authorised service centre for inspection and cleaning of the laser optical pickup unit.

IR Signal Check

If the remote control is not working properly, you can use a digital camera (including a cellular phone with built-in camera) to see if it is sending out an infrared signal.

With a digital camera (including built-in cell phone cameras):

Point a digital camera towards the remote control. Push any button on the remote control and look through the digital camera. If the infrared light appears through the camera, the remote control is working.

Supplied Accessories

- Remote Control with button-type lithium battery (CR2025, 3V × 1)
- AC adapter (JS-12020D-2E)
- Battery pack 7.2V (BTRP-M100)
- Car DC adapter
- Mains cable
- AV cable
- Owner's Manual
- Quick Start Guide
- CD-ROM
- Warranty card

Note

- Do not use or connect following supplied accessories with other devices.
  - AC adapter
  - Battery pack 7.2V
  - Car DC adapter

Contents

INTRODUCTION

Safety Instructions 2
Maintenance 4
Supplied Accessories 5
Trademark Information 6
Symbols Used in this Manual 7
Main Unit 8
Remote Control 9
Rotating and Folding the LCD Screen 10
Opening Screen 11

PREPARATIONS

Power Supply 12
Connecting to TV 14
Network Connection with LAN 15
LCD Control 16

PLAYBACK

Information on Playback 17
How to Insert a Disc 20
Volume Control 21
Selecting the Media Mode 21
Playing Back a BD, DVD or a Disc with AVCHD Files 21
Playing Back an Audio CD or a Disc with DivX® / MP3 / Windows Media™ Audio / JPEG Files 23
KODAK Picture CD 25
Reading the SD Memory Card 26
About DivX® and DivX® VOD 27
Playing Back DivX® with DivX® External Subtitle 28
Fast Forward / Fast Reverse 29
Slow Forward Playback 29
Step by Step Playback 29
Repeat Playback 30
Random Playback 30
Rapid Playback 31
HD Noise Reduction 32
Virtual Surround 32
PIP (BONUSVIEW) Setting 32
Camera Angle 33
Enjoying BD-Live Discs with Internet 33
Search 34
Switching Subtitles 35
Switching Audio Soundtrack 36
Setting the BD Audio Mode 37
Enjoying Internet Radio with vTuner 38

FUNCTION SETUP

How to Navigate through the Setup Menus 41
List of Setup Menus 41
Parental 50
fun-Link(HDMI CEC) 51
Network Connection 51
Software Update 55
Initialise 57

OTHERS

Troubleshooting 58
Language Code List 61
Specifications 62
Network Service Disclaimer 63

Trademark Information

HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio Essential and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

"Blu-ray Disc", "Blu-ray" and "Blu-ray Disc" logo are trademarks of Blu-ray Disc Association.

is a trademark of DVD Format/Logo Licensing Corporation.

"BONUSVIEW" is trademark of Blu-ray Disc Association.

"BD-Live" and "BD-Live" logo are trademarks of Blu-ray Disc Association.

x.v.Color

"x.v.Color" and "x.v.Color" logo are trademarks of Sony Corporation.

Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

DivX®, DivX Certified® and associated logos are registered trademarks of DivX, Inc. and are used under license.

"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.

vTuner is a trademark of Nothing Else Matters Software, Ltd.

Java and all Java based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Kodak and KODAK Picture CD Compatible are trademarks of Kodak used under license.

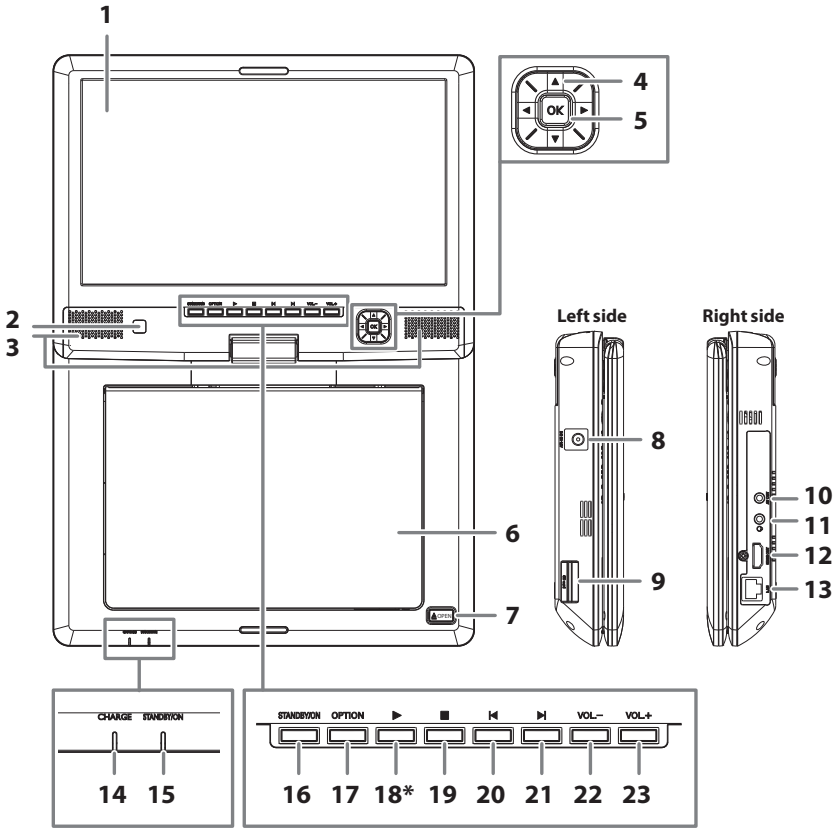
Symbols Used in this Manual

To specify which media type each function is applicable to, we put the following symbols at the beginning of each item to operate.

Symbol	Description
	Description refers to BD-video and BD-RE (ver.2.1) / BD-R (ver.1.1/1.2/1.3) recorded in BDMV format
	Description refers to DVD-video
	Description refers to audio CD / DTS-CD
	Description refers to DVD-RW/-R and SD Memory Card with AVCHD files
	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD Memory Card with DivX® files
	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD Memory Card with MP3 files
	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD Memory Card with Windows Media™ Audio files
	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and SD Memory Card with JPEG files

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media.

Main Unit



1. **LCD screen**
2. **Infrared sensor window**
3. **Speakers**
4. **▲ / ▼ / ◀ / ▶ buttons**
5. **OK button**
6. **Disc lid / Turntable**
7. **⏏ OPEN button**
8. **DC IN 12V jack**
9. **SD card slot**
10. **AV OUT jack**
11. **🎧 (headphone) jack**
12. **HDMI OUT jack**
13. **LAN terminal**
14. **CHARGE indicator**
15. **STANDBY/ON indicator**
16. **STANDBY/ON button**
17. **OPTION button**
18. **▶ (play) button***
19. **■ (stop) button**
20. **⏮ (previous) button**
21. **⏭ (next) button**
22. **VOL.− button**
23. **VOL.+ button**

(*) The unit can also be turned on by pressing this button.

Caution

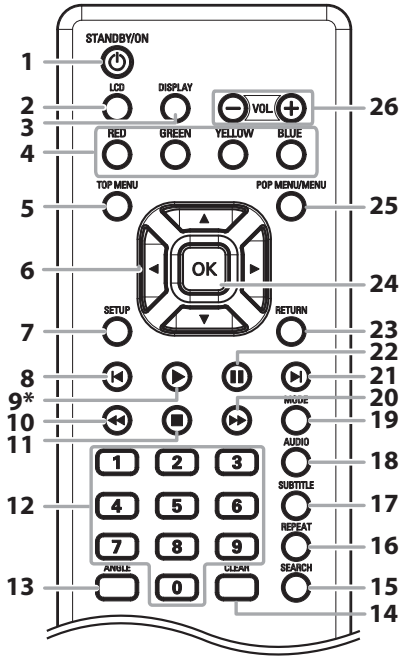
- Do not touch the inner pins of the jacks on each side of the unit. Electrostatic discharge may cause permanent damage to the unit.
- This unit does not have an RF modulator.

Note

- This unit will be turned into the standby mode automatically after 25 minutes (when using AC adapter) or 5 minutes (when using battery pack) of no action.

Remote Control

All the instructions described in this manual are based on the operation using the remote control.

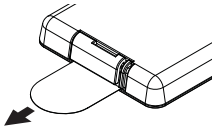


1. **STANDBY/ON ⏻ button**
2. **LCD button**
3. **DISPLAY button**
4. **RED / GREEN / YELLOW / BLUE button**
5. **TOP MENU button**
6. **▲ / ▼ / ◀ / ▶ buttons**
7. **SETUP button**
8. **⏮ (previous) button**
9. **▶ (play) button***
10. **◀◀ (reverse) button**
11. **■ (stop) button**
12. **Number buttons**
13. **ANGLE button**
14. **CLEAR button**
15. **SEARCH button**
16. **REPEAT button**
17. **SUBTITLE button**
18. **AUDIO button**
19. **MODE button**
20. **▶▶ (forward) button**
21. **⏭ (next) button**
22. **❚❚ (pause) button**
23. **RETURN button**
24. **OK button**
25. **POP MENU / MENU button**
26. **VOL. −/+ buttons**

(*) The unit can also be turned on by pressing this button.

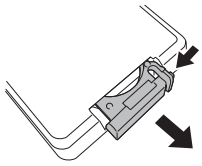
Before Using the Remote Control

Please remove the insulating sheet from the battery before using the remote control.

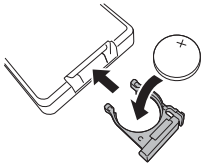


Installing the Battery in the Remote Control

1 **Pull out the battery holder while pressing the lock lever.**



2 **Insert the button-type lithium battery (CR2025, 3V) with the + side facing up and return the holder until it clicks.**



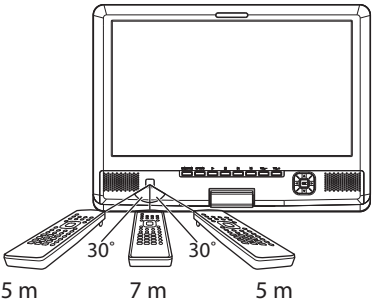
Caution

- Keep the battery out of reach of children to prevent swallowing. In case of accidental ingestion, consult a doctor.

Using a Remote Control

Remote Control Usage Guidelines:

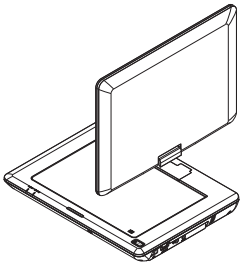
- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other device located close to the unit.
- Replace the battery when you notice a fall off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.
  - **Line of sight:** approx. 7 m
  - **Either side of the centre:** approx. 5 m within 30°
  - **Above:** approx. 5 m within 15°
  - **Below:** approx. 3 m within 30°



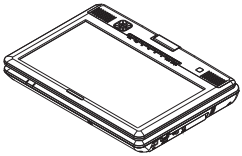
Rotating and Folding the LCD Screen

You can rotate and fold the LCD screen as shown below.

1 **Open the LCD screen to the vertical position. Then slowly rotate the screen 180 degrees in the clockwise direction.**



2 **Push the screen down onto the main body of the unit.**



Caution

- There may be 0.01% or less chance of missing or constantly turned on pixels on the LCD screen. This is not a malfunction.
- Do not place the unit with the LCD screen side down when the screen is open. This may scratch the surface of the LCD screen.
- Do not rotate the screen over 180 degrees. It may cause a damage to the unit.
- Do not insert a finger between the screen and the main body of the unit when rotating the screen.

Note

- To return the LCD screen to its original position, open the screen to a vertical position and rotate it slowly counter-clockwise.

Opening Screen

In stop mode, opening screen is displayed.

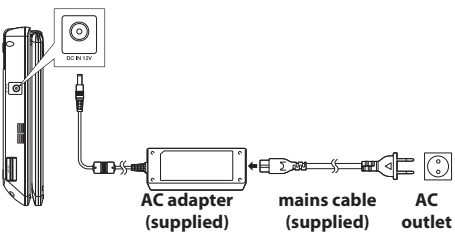
"vTuner" : To access the menu screen of vTuner

PREPARATIONS

Power Supply

This unit can be used with AC adapter, battery pack or car DC adapter.

Using the Unit with AC adapter



Note

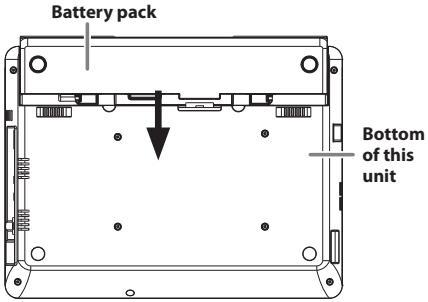
- This unit is in standby mode when;
  - the AC adapter is connected to the unit and the mains cable is connected to an AC outlet. (STANDBY/ON indicator light up in red.)
  - the battery pack is attached to the unit. (STANDBY/ON indicator does not light up.)
- When you want to turn off the unit completely, you must disconnect the AC adapter and detach the battery pack.

Using the Unit with the Battery Pack

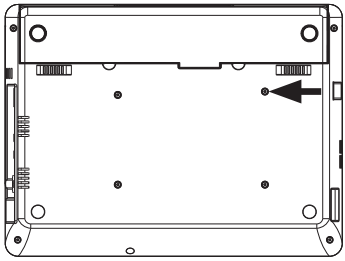
The battery pack is not charged at the time of purchase. Please charge the battery pack before using for the first time.

Attaching the Battery Pack

1 **Place the battery pack as illustrated below.**



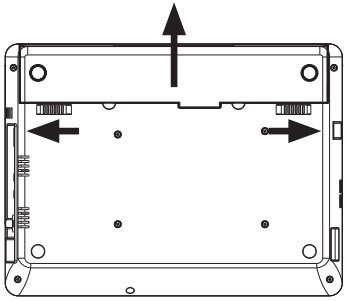
2 **Slide the lock on the right side in the direction of the arrow.**



Detaching the Battery Pack

1 **Slide the lock on the right side in the direction of the arrow.**

2 **Then release the lock on the left side by sliding and holding it in the direction of the arrow, then detach the battery pack in the direction of the arrow.**



Caution

- Turn off the unit before attaching or detaching the battery pack.
- Detach the battery pack when you do not use it.

Charging the Battery Pack

Attach the battery pack and connect the AC adapter.

- For connection, refer to "Using the Unit with AC adapter" on page 12.
- CHARGE indicator lights up in green while charging the battery and turns off when charging is finished.

Approximate charging and play times

Charging			5 h
Play	LCD brightness setting	-7	2 h 40 mins
		0	2 h 30 mins
		+7	2 h 15 mins

- To change LCD brightness, refer to "LCD Control" on page 16.
- If you charge the battery pack during playback, charging time may take longer than above chart.
- The times indicated in above chart may change depending on the usage environment.

Checking the battery level

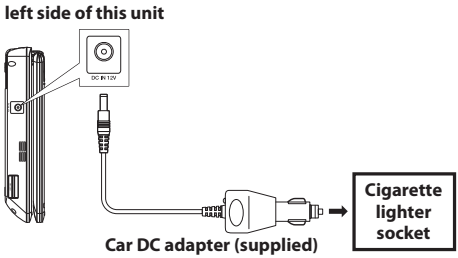
When "Battery Icon" (refer to page 47) is set to "On", battery icon is displayed on the LCD screen.

Note

- When the battery is empty;
  - The empty battery icon will be displayed even if "Battery Icon" is set to "Off".
  - The empty battery icon and CHARGE indicator flashes.
- When the AC adapter is connected, the battery icon will not be displayed even if "Battery Icon" is set to "On".
- If you leave the unit with empty battery, the unit will be turned off automatically after a while.
- This unit will not turn on when the battery is empty and AC adapter is not connected.
- Please charge the battery pack if the battery icon starts to blink.

Using the Unit with the Car DC Adapter

Connect the car DC adapter as illustrated below.



Caution

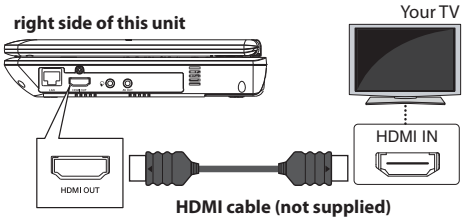
- Do not operate or view this unit while operating the vehicle.
- Do not turn off the car engine or disconnect the car DC adapter before turning off this unit. This may damage the unit.
- The supplied car DC adapter is only for 12V car battery with negative ground. Do not use with any 24V truck battery with negative or positive ground.

Connecting to TV

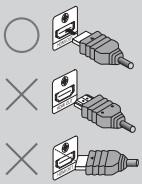
You can enjoy the video and audio of this unit on your TV.

- When you make connection with your TV, both this unit and the TV should be turned off.
- Refer to the manual of your TV for more information.

HDMI Video / Audio Connection

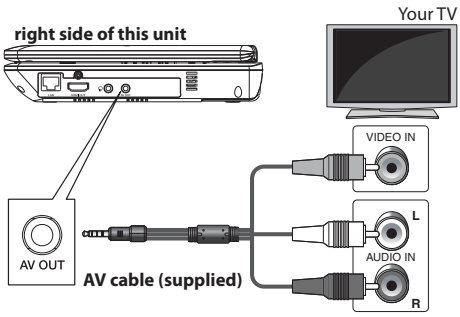


Note



- Do not tilt the connector when inserting it into the HDMI jack and make sure the shapes of the jack and the connector are matched.
- When connected to an HDCP* (High-bandwidth Digital Content Protection system) incompatible display device;
  - the picture will not be displayed properly.
  - CHARGE indicator and STANDBY/ON indicator will blink on and off.
  (*HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your display device for more information.)
- Please purchase the necessary cables at your local store. Use an HDMI cable with the HDMI logo (a certified HDMI cable) for this connection. High Speed HDMI cable (also known as HDMI category 2 cable) is recommended for better compatibility.
- Under the following conditions, audio will be output from this unit even if the unit is connected to a display device using an HDMI cable.
  - When connected to the DVI compatible display device with an HDMI-DVI converter cable or device with no audio output.
  - When "HDMI Audio Out" is set to "Audio Mute".
- This unit can output the HD audio when;
  - Amplifier is connected with an HDMI cable.
  - "BD Audio Mode" is set to "HD Audio Output". (Refer to page 37.)

Standard Video / Audio Connection



- Connect this unit directly to the TV. If the audio / video cables are connected to a VCR then the picture may be distorted due to the copyright protection system.

Finding the Video Channel on Your TV

After you have completed the connection with your TV, you must find the correct video channel (external input channel) on your TV.

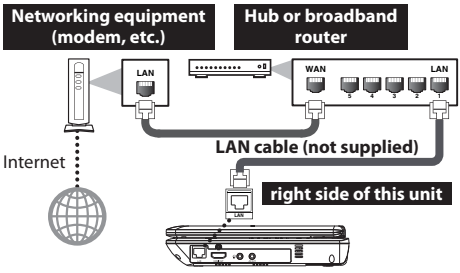
1. **Press [STANDBY/ON ⏻] to turn on the unit.**
2. **Turn on your TV.**
3. **Press the button on the TV's remote control that accesses the external input channel. It may be labelled "SOURCE", "AV", "AUX" or "SELECT" (refer to your TV's user manual).**

Note

- If the TV is connected by an HDMI cable, it may take a while for the opening picture to come up.
- LCD screen is off when a cable is connected to AV OUT jack or when HDMI OUT jack is outputting the picture.

Network Connection with LAN

By connecting this unit to the Internet, you can update the software via the Internet or access the BD-Live and vTuner service.



Caution

- Do not insert any cable other than a LAN cable to the LAN terminal to avoid damaging the unit.

Note

- After connecting a LAN cable, set up necessary network settings. (For the network setup, refer to "Network Connection" on pages 51-55.)
- For more information about a software update, refer to "Network Update" on page 56.
- For more information about BD-Live, refer to "Enjoying BD-Live Discs with Internet" on page 33.
- For more information about vTuner, refer to "Enjoying Internet Radio with vTuner" on page 38.
- If your network equipment (modem, etc.) does not have broadband router functions, connect a broadband router.
- If your network equipment (modem, etc.) has broadband router functions but there is no vacant port, add a hub.
- For a broadband router, use a router which supports 10BASE-T/100BASE-TX Ethernet standard.
- Do not connect your PC directly to the LAN terminal of this unit.
- Please purchase shielded LAN cables at your local store and use them when you connect to network equipment.

LCD Control

You can adjust the pictures on the LCD screen.

1 **Press [LCD].**

2 **Use [▲ / ▼] to select the desired setting.**

"☼" (Brightness) :
Adjusts the brightness level of the picture. (-7 to +7)

"◑" (Contrast) :
Adjusts the contrast level of the picture. (-7 to +7)

"◔" (Sharpness) :
Adjusts the sharpness level of the picture. (-7 to +7)

"◍" (Hue) :
Adjusts the hue (tint) level of the picture. (-7 to +7)

"❀" (Saturation):
Adjusts the colour saturation level of the picture. (-7 to +7)

"▭" (Monitor) :
Turns on ("▣") or off ("▭") the LCD screen. If you select "▭", the LCD screen will be turned off after 10 seconds. To activate the setting immediately, press **[OPTION]** on the unit or **[LCD]** on the remote control.

3 **Use [◀ / ▶] to change the setting.**

4 **Press [LCD] to exit.**

Note

- You can also set the LCD settings in the setup menu. (Refer to page 43.)
- "LCD Control" is also selectable in the option menu. To call up the option menu, press **[OPTION]** on the unit. (Option menu will differ depending on the status of playback or playback media / file.)
- Pressing **[LCD]** does not work while setup menu is displayed or the unit is outputting the picture from AV OUT jack or HDMI OUT jack.
- To turn on the LCD screen when "Monitor" is set to "Off", press **[▲OPEN] / [OPTION]** on the unit or **[LCD]** / **[■ (stop)]** / **[SETUP]** on the remote control.

PLAYBACK

Information on Playback

Before you start playing back a disc, read the following information.

Playable Discs and Files

This unit is compatible playing back the following discs / files. To play back a disc / file, make sure that it meets the requirements for region codes and colour systems as described below. You can play back discs that have the following logos.
Other disc types are not guaranteed to play back.

Playable discs
Blu-ray Disc - BD-video (single / dual layer) - BD-RE ver. 2.1 (single / dual layer) (Recorded in BDMV format) - BD-R ver. 1.1 / 1.2 / 1.3 (single / dual layer) (Recorded in BDMV format) (Unclosed discs may not be played back.)
DVD-video
DVD-RW
DVD-R
CD-DA (audio CD)
CD-RW
CD-R
KODAK Picture CD
DTS-CD

Playable files	Media
AVCHD*	DVD-RW/-R SD Memory Card (including SDHC) miniSD Card microSD Card
DivX®	BD-RE/-R DVD-RW/-R CD-RW/-R SD Memory Card (including SDHC) miniSD Card microSD Card
MP3	
Windows Media™ Audio	
JPEG	

* AVCHD (Advanced Video Coding High Definition) is a format for the recording and playback of high definition video.

Readable cards	Playable files / data
SD Memory Card (8 MB - 2 GB)	AVCHD, DivX®, MP3, WMA, JPEG, picture-in-picture commentary, subtitles or other extras for BD-ROM ver. 2 (Profile 2.0 / Profile 1.1)
SDHC Memory Card (4 GB - 8 GB)	
miniSD Card (8 MB - 2 GB)	
microSD Card (8 MB - 2 GB)	

- ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.
- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.
- DivX Certified® to play DivX® video up to HD 1080p, including premium content.
- Discs containing the DivX® files with the DivX® GMC (Global Motion Compensation) playback feature, which is DivX® supplemental function, cannot be played back on this unit.

It is recommended that files to be played back in this unit are recorded under the following specifications:

DivX®
Official DivX® Certified product

- Playable codec of AVI files : DivX® 3.x, DivX® 4.x, DivX® 5.x, DivX® 6.x
- Maximum size of a video : 1920 x 1080 @ 60 fps
- Sampling frequency of audio : 16 kHz - 48 kHz
- Audio type : MPEG1 audio layer 3 (MP3), MPEG1 audio layer 2, Dolby Digital

MP3/Windows Media™ Audio

- Sampling frequency : 32 kHz, 44.1 kHz or 48 kHz
- Constant bit rate : 112 kbps - 320 kbps (MP3), 48 kbps - 192 kbps (Windows Media™ Audio)

JPEG

- Upper limit : 2,560 x 1,900 dots (sub sampling is 4:4:4)
  5,120 x 3,840 dots (sub sampling is up to 4:2:2)
- Lower limit : 32 x 32 dots
- File size of image maximum : 12 MB

Note for SD Memory Cards

- This unit supports SD Memory Card with FAT12/ FAT16 file system, and SDHC Memory Card with FAT32 file system.
- This unit does not support NTFS file system.
- This unit may not read SD Memory Cards formatted on a computer. If that is the case, please reformat the SD Memory Cards in this unit and try again.
- This unit does not support miniSDHC and microSDHC Memory Card.
- For miniSD Card and microSD Card, an adapter is necessary.
- Portions of this product are protected under copyright law and are provided under license by ARIS / SOLANA / 4C.
- Please keep the SD Memory Cards in their cases when you are not using them.
- Do not try to open or modify the card.
- Do not touch the terminal surface with your fingers or any metal surfaces.
- Do not attach additional labels or stickers to cards.
- Do not remove the label of the SD Memory Cards.
- This unit recognises up to 8 characters of file name in the SD Memory Card. Characters after 8th will not be displayed.

Unplayable Discs and Files

The following discs will not be played back in this unit.

- CD-ROM
- CD-I (compact disc-interactive)
- DVD-RAM
- VSD (video single disc)
- DVD-audio
- Video CD
- HD DVD
- SVCD
- BD-RE (ver.1.0)
- BD-RE (ver.2.1) (Recorded in BDAV format)
- BD-R (ver.1.1 / 1.2 / 1.3) (Recorded in BDAV format)
- BD that contains AVCHD files
- BD/DVD hybrid disc (played back as a BD-video only)
- DVD-RW/-R recorded in non compatible recording format
- Super Audio CD - Only the sound on the CD layer can be heard. The sound on the high-density Super Audio CD layer cannot be heard.
- Playability of dual discs are not guaranteed.
- This unit cannot play back the disc contents protected by Windows Media™ Digital Rights Management (DRM).

Colour Systems

BD and DVD are recorded in different colour systems throughout the world. The most common colour system, used primarily in the U.K. and other EU countries, is PAL. This unit uses the PAL system. However, it is also possible to play back BD and DVD using other colour systems, such as NTSC.

Region Codes

BD-video

DVD-video

This unit has been designed to play back BD-video with region "B" and DVD-video with region "2" or "ALL". You cannot play back BD-video or DVD-video that are labelled for other regions. Look for the symbols on the right on your BD-video or DVD-video.
If these region symbols do not appear on your BD-video or DVD-video, you cannot play back the disc in this unit. The letter or number inside the globe refers to region of the world. A BD-video or DVD-video labelled for a specific region can only be played back in the unit with the same region code.

On-Screen Display

You can check information about the current disc by pressing **[DISPLAY]**.
To call the on-screen display menu, press **[DISPLAY]** during playback. Every time you press **[DISPLAY]**, the information changes. Depending on the media, currently available information varies.

BD VIDEO AVCHD

OFF ➡ Title / Chapter information
➡ Title information (elapsed time)
➡ Title information (remaining time)
➡ Decoding format information ➡ OFF

DVD VIDEO

OFF ➡ Chapter information (elapsed time)
➡ Chapter information (remaining time)
➡ Title information (elapsed time)
➡ Title information (remaining time)
➡ Decoding format information ➡ OFF

CD

OFF (Track information [elapsed time])
➡ Track information (remaining time)
➡ Disc information* (elapsed time)
➡ Disc information* (remaining time)
➡ OFF (Track information [elapsed time])
(* not available during random playback)

DivX®

OFF ➡ File information (elapsed time)
➡ File information (remaining time)
➡ File name information ➡ OFF

MP3

OFF (File information [elapsed time])
➡ File name information
➡ OFF (File information [elapsed time])

WMA

OFF (File information [elapsed time])
➡ File name information
➡ Tag information (title name)
➡ Tag information (artist name)
➡ OFF (File information [elapsed time])

JPEG

OFF ➡ File information ➡ File name information ➡ OFF

Chapter information

<Title / Chapter information for BD / AVCHD>

<Chapter information for DVD>

1. **Current title number**
2. **Current chapter number / Total number of chapters**
3. **Current repeat setting (Only when repeat setting is active) (C: Chapter repeat, T: Title repeat)**
4. **Indicates that the multi camera angle images are available on the scene**
5. **Current playback status**
6. **Elapsed time (or remaining time) of the current chapter**

Title information

1. **Current title number / Total number of titles**
2. **Elapsed time (or remaining time) of the current title**

Track / File information

1. **Current tracks (files) number / Total number of tracks (files)**
2. **Elapsed time (or remaining time) of the current track / file (except for JPEG files)**
3. **Indication of SD Memory Card playback**
4. **Current repeat setting (Only when repeat setting is active) (T: Track repeat, G: Group repeat, A: All repeat)**

Disc information

1. **Current track number / Total number of tracks**
2. **Elapsed time (or remaining time) of the current disc**

File name information

1. **Media icon and file name**

: DivX® files : MP3 files

: WMA files : JPEG files

Tag information

<Title name information>

<Artist name information>

1. **Title name based on tag information of current Windows Media™ Audio file**
2. **Artist name based on tag information of current Windows Media™ Audio file**

Decoding format information

1. **Decoding format**

How to Insert a Disc

1 **Press [⏏OPEN] on the unit to open the disc lid.**

2 **Place the disc on the turntable until it clicks into place with its label side facing up.**

- Make sure the disc is compatible with this unit. (Refer to page 17 for the list of compatible discs.)

3 **Close the disc lid until it clicks.**

It may take a while to load the disc.

To eject the disc:
Press **[⏏OPEN]** on the unit to open the disc lid.
Remove the disc.
Close the disc lid until it clicks.

Volume Control

You can control the volume level of the audio output from the speakers.

To increase or decrease the volume level : Press [VOL.+] or [VOL.−].

- The volume level will increase or decrease, every time you press **[VOL.+]** or **[VOL.−]**.
- You can also increase or decrease the volume level by holding down **[VOL.+]** or **[VOL.−]**.
- The volume level will be displayed on the LCD screen.

Note

- This function is only available for the audio output from the speakers of this unit or 🎧 (headphone) jack. (Not effective for the audio output from AV OUT jack and HDMI OUT jack.)
- Pressing **[VOL.+]** or **[VOL.−]** does not work while the setup menu is displayed.
- If you turn up the volume too much, the audio may get distorted. To enjoy clear sounds, please turn down the volume.

Selecting the Media Mode

For the playback media to be read by this unit, the correct media mode should be selected. You can switch the media mode by following the steps below.

1. **In stop mode, press [SETUP].**
2. **Use [▲ / ▼] to select 🔧, then press [OK] .**
3. **Use [▲ / ▼] to select "Mode Select", then press [OK].**
4. **Use [▲ / ▼] to select the desired media mode, then press [OK].**
5. **Press [SETUP] to exit.**
   - Selected media mode is now activated.

Note

- Even if you set the media mode to "SD Card" or "Network", the setting will be switched to "Disc" if you turn the unit into the standby mode.
- If you call up the setup menu screen while the media mode is set to "Network", the setting will be switched to "Disc".
- "SD Card" can be selected only when an SD Memory Card is inserted into the SD card slot.

Playing Back a BD, DVD or a Disc with AVCHD Files

BD VIDEO DVD VIDEO AVCHD

1. **Insert a disc (refer to "How to Insert a Disc" on page 20).**
2. **Playback may start automatically.**
   If not, press **[▶ (play)]**.
   - Some discs may show a title or a disc menu.
   - For a disc with AVCHD files, title menu is displayed.
     In such case, refer to "Using the Title / Disc / Pop-up Menu" on page 22.

To pause playback:
Press **[❚❚ (pause)]**.

To return to the normal playback:
Press **[▶ (play)]**.

To stop playback:
Press **[■ (stop)]**.
Playback will be in Resume-On-Stop mode.

Resume-On-Stop mode

If a playback is in Resume-On-Stop mode, when you press **[▶ (play)]** next time, the playback will start from the point where it has been stopped.

Note

- Resume playback may not be available for the BD that supports Java applications (BD-Java).
- In the "Disc" mode, the resume information will be cleared when;
  - **[■ (stop)]** is pressed while in the Resume-On-Stop mode.
  - the parental level is changed.
  - the disc lid is opened.
  - the AC adapter is disconnected or the battery pack is detached.
- In the "SD Card" mode, the resume information will be cleared when;
  - **[■ (stop)]** is pressed while in the Resume-On-Stop mode.
  - the SD Memory Card is removed.
  - the unit is turned into the standby mode.
  - the AC adapter is disconnected or the battery pack is detached.

Note

- ⃠ may appear at the top-right on the screen when the operation is prohibited by the disc or this unit.
- During the playback of 2-layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
- The operation may vary when you play back BD-video and DVD-video with disc menu. Refer to the manual accompanying the disc for details.
- If a disc contains AVCHD files, the playback of other files on the same disc is not available. All files on an SD Memory Card are available.
- Set "Still Mode" setting to "Field" in "Video" menu if pictures in the pause mode are blurred. Refer to "Still Mode" on page 43.
- If you press **[OPTION]** on the unit during playback or resume-on-stop mode, option menu of available settings and options will appear. Option menu will differ depending on the status of playback or playback media.

Using the Title / Disc / Pop-up Menu

BD VIDEO DVD VIDEO AVCHD

Many of BD-video and DVD-video discs contain title menu (BD-video / DVD-video / AVCHD), disc menu (DVD-video) or pop-up menu (BD-video) which guides you through the available functions in the disc. The contents of the menus may differ depending on the discs.

Title menu (BD-video / DVD-video / AVCHD)

1. **Press [TOP MENU].**
2. **Use [▲ / ▼ / ◀ / ▶] to select an item, then press [OK].**
3. **Press [TOP MENU] to exit.**

Disc menu (DVD-video)

1. **Press [POP MENU / MENU].**
2. **Use [▲ / ▼ / ◄ / ►] to select an item, then press [OK].**
3. **Press [POP MENU / MENU] to exit.**

Pop-up menu (BD-video)

This is a special feature available for some BD-videos. When you press **[POP MENU / MENU]**, a menu pops out on the screen during playback.

1. **During the playback of BD-video, press [POP MENU / MENU].**
2. **Use [▲ / ▼ / ◄ / ►] to select an item, then press [OK].**
3. **Press [POP MENU / MENU] to exit.**

Note

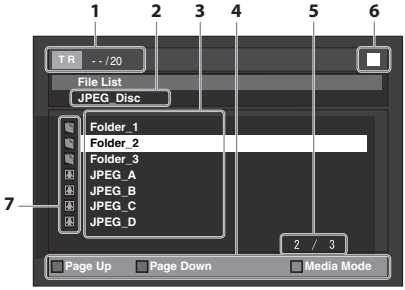
- Contents of menus and corresponding menu operations may vary among discs. Refer to the manual accompanying the disc for details.
- Title menu is also available for SD card with AVCHD files.

Playing Back an Audio CD or a Disc with DivX® / MP3 / Windows Media™ Audio / JPEG Files

CD DivX MP3 WMA JPEG

Before you begin, make sure the correct media mode is selected. Refer to "Selecting the Media Mode" on page 21.

1. **Insert an audio CD or a disc with DivX®, MP3, WMA or JPEG files.**
   - Media filter screen will appear.
   - For audio CD and a disc contains only one type of file, skip to step 3.
2. **Select the type of the file you want to play back in the media filter screen. Then press [OK] to display the file list.**
3. **Use [▲ / ▼] to select a desired track, folder or file, then press [OK]. Use [◄ / ►] to go back and forward between the hierarchies (only for DivX® / MP3 / WMA / JPEG files).**
   - If you press **[OK]** on the desired file, playback will start.



e.g.) JPEG

1. **Audio CD**
   Track information
   DivX® / MP3 / WMA / JPEG
   File information
2. **Audio CD**
   "CD-DA" will be displayed.
   DivX® / MP3 / WMA / JPEG
   Current disc or folder name will be displayed.

3. **Audio CD**
   List of the track number and time
   DivX® / MP3 / WMA / JPEG
   List of the folder or file names in the current disc or folder
4. **Operation guide**
   Press **[RED]** to go to the previous page.
   Press **[GREEN]** to go to the next page.
   Press **[YELLOW]** to call up the subtitle list.
   Press **[BLUE]** to select "Media Mode".
5. **Current page / Total page number(s)**
6. **Playback status**
7. **Media icon**

: Folder
: audio CD tracks
: DivX® files
: MP3 files
: WMA files
: JPEG files

4 **Press [■ (stop)] to stop playback.**

Note

- Unrecognisable characters will be replaced with asterisks.
- Some unplayable folders or files may be listed due to the recording status.
- High-resolution JPEG files take longer to be displayed.
- Progressive JPEG files (JPEG files saved in progressive format) cannot be played back in this unit.
- The system can recognise up to 255 folders / 999 files for CD, 999 folders / 9,999 files for BD and DVD.
- The 9th and deeper hierarchies cannot be displayed for CD. The 10th and deeper hierarchies cannot be displayed for BD and DVD.
- For the SD Memory Card playback, refer to "Reading the SD Memory Card" on page 26.
- Extensions other than listed below cannot be recognised.
  - DivX® : ".avi" / ".divx"
  - MP3 : ".mp3"
  - WMA : ".wma"
  - JPEG : ". jpg" / ".jpeg"
- If a disc contains AVCHD files, the playback of other files on the same disc is not available. All files on an SD Memory Card are available.
- With regard to the multi-border BD-RE/-R, additionally recorded sections cannot be recognised.
- With regard to the multi-border DVD-RW/-R, additionally recorded sections may not be recognised.
- If you press **[OPTION]** on the unit during playback or resume-on-stop mode, option menu of available settings and options will appear. Option menu will differ depending on the status of playback or playback media.

KODAK Picture CD

JPEG

This unit can also run JPEG files stored on KODAK Picture CD. You can enjoy picture images on the TV set by playing back the KODAK Picture CD. This unit conforms to ver.7.0 of KODAK Picture CD. For details of KODAK Picture CD, contact a shop that provides developing service of Kodak Inc.

1 **When KODAK Picture CD is inserted in this unit, KODAK Picture CD menu will appear automatically on the screen.**

1. **File information**
2. **Current page / Total page number(s)**
3. **Operation guide**
   Press **[YELLOW]** to go to the previous page.
   Press **[BLUE]** to go to the next page.
4. **Playback status**

2 **Use [▲ / ▼ / ◀ / ▶] to select a desired file to be played back, then press [▶ (play)] or [OK].**

- An image will be played back from the selected file and go to the next one in turn.

3 **Press [■ (stop)] to stop playback.**

To return to the first item:
Press **[TOP MENU]**.
To return to the file played last:
Press **[POP MENU / MENU]**.

Tips for JPEG / KODAK Picture CD Playback

- The selected file will be played back and go to the next file in the current hierarchy in turn every 10 seconds.
- Every press of **[ANGLE]** will turn the image clockwise by 90 degrees when an image is displayed.
- To change the visual effect for switching the playback image, press **[MODE]** once, then use **[◀ / ▶]** or **[OK]** to switch between "Cut In/Out" and "Fade In/Out".
- During JPEG / KODAK Picture CD playback, press **[MODE]** twice to change the size of the playback image, then use **[◀ / ▶]** or **[OK]** to switch between "Normal" (100 %) and "Small" (95 %). The size change may have no effect on some files (e.g. files with a small picture size).

Reading the SD Memory Card

AVCHD | DivX® | MP3 | WMA | JPEG

You can play back the AVCHD / DivX® / MP3 / WMA / JPEG files in an SD Memory Card. With the SD Memory Card, you can also enjoy the following functions.

- Special additional contents for BD-ROM Profile 1 ver.1.1. (For more information about the special additional contents, refer to the instruction book that came with the disc.)
- BD-Live function (BD-ROM ver. 2 Profile 2.0). (For more information about BD-Live, refer to page 33.)

1 Insert an SD Memory Card, with the label side facing up, into the SD card slot until it clicks.

If no disc is in operation, "Media Select" screen will appear on the screen.

2 Use [▲ / ▼] to select "SD Card", then press [OK].

- Media filter screen will appear.
- When the SD Memory Card contains only one type of file, skip to step 4.

3 Select the type of the file you want to play back in the media filter screen. Then press [OK] to display the file list.

For "Video":

- If the SD Memory Card contains AVCHD and DivX® files, use **[▲ / ▼]** to select "AVCHD" or "DivX", then press **[OK]**.
- If the SD Memory Card contains AVCHD files and no DivX® files , the playback will start right after you select "Video". (The file list is not available for AVCHD files.)

4 Use [▲ / ▼] to select a desired track, folder or file, then press [OK]. Use [◄ / ►] to go back and forward between the hierarchies.

- If you press **[OK]** on the desired file, playback will start.

To remove the SD Memory Card:

In stop mode, gently push in the SD Memory Card, then pull it out slowly.

Caution

- Do not remove the SD Memory Card or turn the unit to the standby mode while the contents of the card are in playback. It may result in malfunction or loss of the card's data.

Note

- The "Media Select" screen will disappear under the conditions listed below:
  - when the screen saver is activated.
  - when **[RETURN]** is pressed.
  - when the setup menu is called up.
- If the "Media Select" screen disappears before you make the selection, refer to "Selecting the Media Mode" on page 21.
- Do not delete the folders or files in the SD Memory Card with your computer. This unit may not read SD Memory Cards formatted on a computer.
- If a folder or file name includes one of the following unrecognisable characters, the folder or file name may not be displayed correctly.
  - Unrecognisable characters : . , " = + [ ] ; / \ : | ¥
- The system can recognise up to 999 folders / 9,999 files for SD Memory Card.
- The 10th and deeper hierarchies cannot be displayed for SD Memory Card.
- For an SD Memory Card, extensions other than listed below cannot be recognised.
  - DivX® : ".avi"
  - MP3 : ".mp3"
  - WMA : ".wma"
  - JPEG : ". jpg"
- Playback of DivX® files in an SD Memory Card is not guaranteed.

About DivX® and DivX® VOD

DivX®

Useful tips for purchased or rented official DivX® Certified Videos

- When you purchase or rent a DivX® file through the official site of DivX® video which is called DivX® Video On-Demand (VOD) services, a registration code is required every time you get the new file from the DivX® VOD services. Refer to "DivX® VOD" in "FUNCTION SETUP" on page 47.

Possible Errors

"This rental has ○ views left. Do you want to use one of your ○ views now?"
Some DivX® VOD files are restricted with limited playable times. You cannot play them back beyond the limit.

"This player is not authorized to play this video."
You cannot play back DivX® VOD files obtained with different registration codes on this unit.

"This rental is expired."
You cannot play back DivX® VOD files with an expired rental period.

"This player does not support this video format."
You cannot play back DivX® files whose resolution exceeds 1920 x 1080.

"This player does not support this audio format."
For DivX® files with audio format other than MPEG1 audio layer 3 (MP3), MPEG1 audio layer 2 and Dolby Digital, audio will not be output and only the video will be output.

Note

- A file with an extension of ".avi" and ".divx" is called as a DivX® file. All files with the ".avi" extension are recognised as MPEG4.
- For CD-RW/-R, maximum of 255 group (folder) or 999 files may be recognised.
- For BD-RE/-R and DVD-RW/-R, maximum of 999 group (folder) or 9,999 files may be recognised.
- The 10th and deeper hierarchies cannot be displayed.
- Unrecognisable characters will be replaced with "□".
- When playing back files recorded in high bit rates, images can be interrupted in some occasions.
- Although DivX® logo has been obtained for this unit, it may not be able to play back some data, depending on the characteristics, bit rates, or audio format settings, etc.
- If a large-sized DivX® file is selected, it may take a while to start the playback (over 20 seconds sometimes).
- If DivX® files written on a CD-RW/-R cannot be played back, rewrite them on a BD-RE/-R or DVD-RW/-R, and try playing them back again.
- For more information about DivX®, please visit http://www.divx.com.

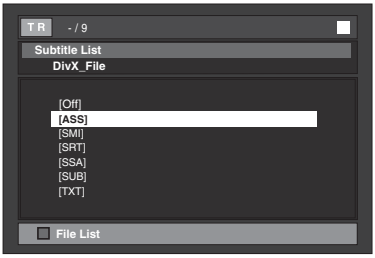
Playing Back DivX® with DivX® External Subtitle

DivX®

Subtitles created by the user can be displayed during DivX® playback.

1 **Follow steps 1 to 3 in "Playing Back an Audio CD or a Disc with DivX® / MP3 / Windows Media™ Audio / JPEG Files" on pages 23-24.**

2 **Select a file you want to play back, then press [YELLOW].**
Subtitle list will appear.



- "DivX Subtitle" appears next to "Yellow" icon only when DivX® subtitle is available for the selected file.
- If you press **[▶ (play)]** or **[OK]** instead of **[YELLOW]**, playback without subtitle will start.

3 **Select the desired subtitle file, then press [▶ (play)] or [OK].**
Playback of the DivX® file with DivX® subtitle will start.

Note

- To utilise this function, the following conditions must be met:
  - Playback file and subtitle file must have the same name.
  - Playback file and subtitle file must be located in the same folder.
  - Only subtitle files with the following extensions are supported; .smi (.SMI), .srt (.SRT), .sub (.SUB), .ass (.ASS), .ssa (.SSA), .txt (.TXT). (.sub (.SUB) and .txt (.TXT) may not be recognised.)
  - Subtitles that exceeds the playback time of the DivX® file will not be displayed.
  - If the DivX® subtitle file contains more than one subtitle language, you can toggle those by pressing **[SUBTITLE]** repeatedly.

Fast Forward / Fast Reverse

BD VIDEO DVD VIDEO AVCHD DivX CD MP3 WMA

1 **During playback, press [▶▶ (forward)] repeatedly for fast forward.**
During playback, press [◀◀ (reverse)] repeatedly for fast reverse.
Every time you press [▶▶ (forward)] or [◀◀ (reverse)], the playback speed will change.
- You can also fast forward or fast reverse the playback by holding down **[▶| (next)]** or **[|◀ (previous)]** on the unit. (Playback speed will change while holding down **[▶| (next)]** or **[|◀ (previous)]** on the unit.)

2 **Press [▶ (play)] to return to normal playback.**

Note
- For BD, DVD and AVCHD, speed changes in 5 different levels.
- For audio CD, DivX®, MP3 and Windows Media™ Audio, speed changes in 3 different levels.
- For audio CD, fast forward / fast reverse search between different tracks are not available during random playback.
- For DivX®, MP3 and Windows Media™ Audio, fast forward / fast reverse search between different files are not available.
- For some DivX® files, fast forward / fast reverse may not function.

Slow Forward Playback

BD VIDEO DVD VIDEO AVCHD DivX

1 **During playback, press [❙❙ (pause)], then press [▶▶ (forward)].**
Every time you press [▶▶ (forward)], playback speed will change.

2 **Press [▶ (play)] to return to normal playback.**

Note
- Slow motion speed changes in 3 different levels.
- Only slow forward is available.
- Set "Still Mode" setting to "Field" in "Video" menu if pictures in the slow forward playback mode are blurred. Refer to "Still Mode" on page 43.
- For some DivX® files, slow forward may not function.

Step by Step Playback

BD VIDEO DVD VIDEO AVCHD DivX

1 **In pause mode, press [❙❙ (pause)] repeatedly.**
Every time you press [❙❙ (pause)], playback will advance one step at a time.

2 **Press [▶ (play)] to return to normal playback.**

Note
- Only step by step forward is available.
- Set "Still Mode" setting to "Field" in "Video" menu if pictures in step by step playback mode are blurred. Refer to "Still Mode" on page 43.

Repeat Playback

Available repeat functions vary depending on the discs.

1 **During playback, press [REPEAT] repeatedly to select the desired repeat mode.**

Repeat mode	Available media
Chapter repeat The current chapter will be played back repeatedly.	BD VIDEO, DVD VIDEO, AVCHD
Title repeat The current title will be played back repeatedly.	BD VIDEO, DVD VIDEO, AVCHD
Track repeat The current track will be played back repeatedly.	CD, DivX®, MP3, WMA
Group repeat The current folder will be played back repeatedly.	DivX®, MP3, WMA, JPEG
All repeat All tracks or files in the media will be played back repeatedly.	CD, DivX®, MP3, WMA, JPEG

Note

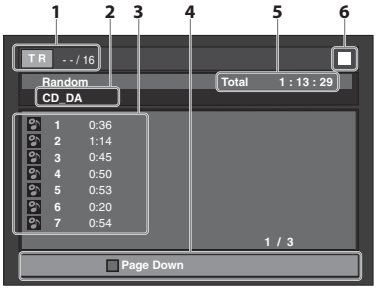
- The repeat setting will be cancelled when you stop playback.
- The chapter, title, track or group repeat will be cleared when moving to another chapter, title, track / file or folder.
- Chapter and title repeat are not available with some scenes.
- When the repeat setting is set for a MP3 or WMA folder (file), the repeat setting will be cancelled if you select other MP3 or WMA folder (file) to play back.

Random Playback

CD MP3 WMA JPEG

This function shuffles the playback order of tracks / files.

1 **In stop mode, press [MODE].**



e.g.) audio CD

1. **Audio CD**
   Track information
   MP3 / WMA / JPEG
   File information
2. **Audio CD**
   "CD-DA" will be displayed.
   MP3 / WMA / JPEG
   Current disc, SD card, or folder name will be displayed.
3. **Track / File list**
   Track / File list in the original order will be displayed.
4. **Operation guide**
   Press **[RED]** to go to the previous page in the track / file list.
   Press **[GREEN]** to go to the next page in the track / file list.
5. **Total playback time of all tracks (audio CD only)**
6. **Playback status**

2 **Press [▶ (play)] to start random playback.**

To exit from the random playback mode:

- Press **[MODE]** in stop mode.

Note

- During the random playback, press **[■ (stop)]** once to set the resume point, and then press **[▶ (play)]** to resume random playback from where **[■ (stop)]** was pressed (audio CD) or from beginning of the file where **[■ (stop)]** was pressed (MP3 / WMA / JPEG).
- To repeat the current track / file in the random selection, press **[REPEAT]** repeatedly until "↻ Track" appears during playback. To repeat the entire random selection press **[REPEAT]** repeatedly until "↻ All" appears during playback.
- Playback from a desired track / file is not available during random playback.
- In stop mode, press **[RETURN]** to go back to the track / file list.
- For a disc containing mixed MP3 and Windows Media™ Audio files, random playback of those files will be performed.

Rapid Playback

BD VIDEO DVD VIDEO AVCHD

This function plays back approximately at 1.3 times the normal playback while keeping the sound output. This function is available only on discs recorded in the Dolby Digital format.

1 **During playback, press [MODE] repeatedly until the Rapid playback setting appears.**

2 **Press [OK] or [◀ / ▶] to switch "♪♪" (1.3x), or "Off".**

"Off" : Plays back in normal speed.
"♪♪" : Plays back approximately at 1.3 times of normal playback.

3 **Press [▶ (play)] to return to normal playback.**

Note

- Picture adjustment and audio language setting cannot be changed during this function.
- Virtual surround does not work during this function.
- This function may not work at some points on a disc.
- During this function, 2ch LPCM will be output from HDMI OUT jack.

HD Noise Reduction

BD VIDEO DVD VIDEO AVCHD DivX

Reduces the noise of the playback picture.

1 **During playback, press [MODE] repeatedly until appears.**

2 **Use [◄ / ►] to change the setting.**

e.g.) DVD-video

"Off": Shows the original picture as recorded.
"On" : Executes HD noise reduction which detects and deletes the noise of the playback picture.

3 **Press [RETURN] to exit.**

Note

- The setting will remain the same even if the unit is turned to the standby mode.
- You cannot adjust the setting during rapid playback.

Virtual Surround

BD VIDEO DVD VIDEO CD AVCHD DivX MP3 WMA

You can enjoy stereophonic virtual space through your existing 2 channel stereo system.

1 **During playback, press [MODE].**

2 **Use [▲ / ▼] to select your desired setting.**

"Off": No surround effect
"1" : Natural surround effect
"2" : Stronger surround effect

3 **Press [RETURN] to exit.**

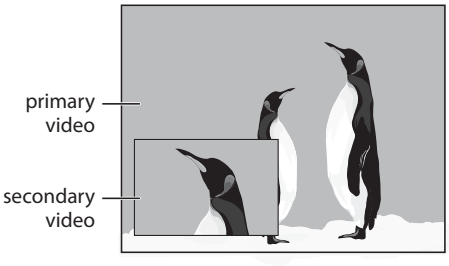
Note

- Set the virtual surround setting to "Off" or lower the volume if the sound is distorted.
- Virtual surround does not function during rapid playback.
- For the virtual surround, audio signal will always be 2-channel LPCM.

PIP (BONUSVIEW) Setting

BD VIDEO

Some BD-video have the PIP function which enables you to display the secondary video in the primary video. You can call up the secondary video by pressing **[MODE]** whenever the scene contains the secondary video.



1 **During playback, press [MODE] repeatedly until the PIP function appears.**

2 **Use [▲ / ▼] to select the secondary video you want.**

- The secondary video will be displayed and the secondary audio will be output.
- Use **[◄ / ►]** to switch between current setting and "Off".

3 **Press [RETURN] or [MODE] to remove the PIP information.**

Note

- The secondary audio will not be output when the secondary audio is set to "Off" or when "BD Audio Mode" is set to "HD Audio Output". Refer to "Switching Audio Soundtrack" on page 36 and "Setting the BD Audio Mode" on page 37.

Camera Angle

Some BD-video and DVD-video contain scenes which have been shot simultaneously from various angles. You can change the camera angle when appears on the screen.

1. **During playback, press [ANGLE].**
   - The selected angle will be displayed on the display bar at the top of the screen.
2. **Use [▲ / ▼] to select your desired angle.**

Note

- If "Angle Icon" setting is "Off" in "Others" menu, will not appear. Refer to page 47.

Enjoying BD-Live Discs with Internet

You can enjoy BD-Live which enables you to use interactive features when the unit is connected to the Internet. (For network connection, refer to pages 51-55.)
Examples of BD-Live features:

- Online access to additional content such as movie trailers, subtitles, BD-Java applications, etc.
- While downloading, special video data may be played back.

How to Activate the BD-Live Function

1. **Insert the disc with BD-Live function.**
2. **Insert an SD card with enough capacity. (SD card of 1GB or more is recommended.)**
   - Make sure to use the SD card with the supported file system. (Refer to "Note for SD Memory Cards" on page 18)
3. **Press [TOP MENU] to access the disc menu.**
4. **Select "BD-Live", then press [▶ (play)] or [OK].**
   - Make sure the SD card is correctly inserted, and do not remove the card during playback.
   - Service and functions differ depending on the disc. Follow the instructions given by the disc when using the BD-Live function.

Note

- You must connect the unit to the Internet and set up necessary settings in order to use BD-Live.
- For certain discs, "BD-Live Setting" may need to be changed.
- Depending on your connection environment, it may take time to connect to the Internet or the Internet may not be connected.
- When BD-Live functions are used and the unit is connected to the Internet, you may be charged for this communication.
- While connecting to BD-Live, sometimes it can take awhile before the next page is downloaded or refreshed.
- Some discs with BD-Live function require memory when playing back the content. If you cannot play back a disc with BD-Live function, insert an SD card(1GB or more) which is formatted on this unit.

Note for AACS Online*

- *AACS (Advanced Access Content System) is the content protection scheme for Blu-ray content data.
- The player or disc IDs may be sent to the content provider when playing back a disc with BD-Live function.
- If you save your viewing history on the server by using these IDs, you will be introduced to other similar movies.
- You can save game score histories.

Search

Using [⏮ (previous) / ⏭ (next)]

1 **During playback, press [⏭ (next)] to move to the next track / title / chapter / file. Press it repeatedly to skip to subsequent tracks. Press [⏮ (previous)] once to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks.**

- For JPEG files, press **[⏮ (previous)]** to go back to the previous file.

Note

- For BD and DVD, if title contains no chapters, **[⏮ (previous) / ⏭ (next)]** changes the title.
- For JPEG files, **[◀ / ▶]** is also available.

Using [SEARCH]

By using **[SEARCH]**, you can select the following search modes.

Repeat mode	Available media
/ TT Chapter / Title search	BD VIDEO, DVD VIDEO, AVCHD
TR Track search	CD, DivX, MP3, WMA, JPEG
Time search	BD VIDEO, DVD VIDEO, CD, AVCHD, DivX

1 **During playback, press [SEARCH] repeatedly until your desired search mode appears.**

2 **Enter the desired chapter, title, track, file number or time to search for using [the Number buttons].**

- Chapter, title, track or time search will start.
- Press **[CLEAR]** to erase an incorrect input.

Note

- During random playback, search functions are not available except the search using **[⏮ (previous) / ⏭ (next)]**.
- Time search is available only in the same track, file or title.
- For BD and AVCHD, chapter and time search are available only during playback.
- For some DivX® files, time search may not function.

Using [the Number buttons] (Direct Search)

Title search

In stop mode, enter the title number you want to search using [the Number buttons].

Playback of the title will start in a few seconds.

Chapter search

During playback of a title, enter the chapter number you want to search using [the Number buttons].

Playback of the chapter will start in a few seconds.

Track / file search

Enter the track / file number you want to search using [the Number buttons].

Playback of the track / file will start in a few seconds.

Note

- As for the BD-video, how it performs will be strongly determined by the disc, and may not perform as described here.

Switching Subtitles

Some video materials may have subtitles in 1 or more languages. For commercially available discs, the supported languages can be found on the disc case. Follow the steps below to switch the subtitle language during playback.

BD VIDEO

1. **During playback, press [SUBTITLE].**
2. **Use [▲ / ▼] to select "Primary Subtitle", "Secondary Subtitle" or "Subtitle Style", then press [OK].**
   - **"Primary Subtitle"** : Sets the subtitle for the primary video.
   - **"Secondary Subtitle"** : Sets the subtitle for the secondary video.
   - **"Subtitle Style"** : Sets style of the subtitle.
3. **Use [▲ / ▼] to select your desired subtitle or style.**
   - Use **[◀ / ▶]** to switch between current subtitle setting and "Off".
4. **Press [SUBTITLE] to exit.**

DVD VIDEO AVCHD DivX®

1. **During playback, press [SUBTITLE].**
2. **Use [▲ / ▼] to select your desired subtitle.**

   - Use **[◀ / ▶]** to switch between current subtitle setting and "Off".
3. **Press [SUBTITLE] to exit.**

Note

- Some discs will only allow you to change the subtitles from the disc menu or pop-up menu. Press **[TOP MENU]** or **[POP MENU / MENU]** to display the disc menu or pop-up menu.
- If a 4-digit-language code appears in the subtitle menu, refer to "Language Code List" on page 61.
- If the disc has no subtitle language or subtitle style, "Not Available" will be displayed on the screen.
- During playback of the secondary video, the primary subtitle setting is not available except when there is no subtitle for the secondary video.
- If you select a language that has a 3-letter-language code, the code will be displayed every time you change the subtitle language setting. If you select any other languages, "---" will be displayed instead. (Refer to page 61.)
- For DivX® external subtitle, refer to "Playing Back DivX® with DivX® External Subtitle" on page 28.
- You can also change the subtitle setting from the option menu. Option menu can be called up by pressing **[OPTION]** on the unit.

Switching Audio Soundtrack

When playing back video material recorded with 2 or more soundtracks (these are often in different audio languages or audio formats), you can switch them during playback.

BD VIDEO

1 **During playback, press [AUDIO].**

2 **Use [▲ / ▼] to select "Primary" or "Secondary" audio to set, then press [OK].**

"Primary" : Sets the audio for the primary video.
"Secondary" : Sets the audio for the secondary video.

3 **Use [▲ / ▼] to select your desired audio stream channel.**

- For "Secondary", use **[◀ / ▶]** to switch between current audio setting and "Off".

4 **Press [AUDIO] to exit.**

DVD VIDEO CD AVCHD DivX®

1 **During playback, press [AUDIO].**

2 **Use [▲ / ▼] to select your desired audio stream channel.**

e.g.) DVD-video

- For audio CD, you can select the following options.

"Stereo" : Both right and left channels are active (stereo).
"L-ch" : Only left channel is active.
"R-ch" : Only right channel is active.

3 **Press [AUDIO] to exit.**

Note

- The secondary audio will not be output when the secondary video is not displayed or when "BD Audio Mode" is set to "HD Audio Output". (For some BD, secondary audio will be output even when secondary video is off.)
- The sound mode cannot be changed during playback of discs not recorded in multiple audio.
- Some discs allow changing the audio language setting on the disc menu. (Operation varies depending on the discs. Refer to the manual accompanying the disc.)
- **[AUDIO]** may not work on some discs with multiple audio streams or channels (e.g. DVDs that allow changing audio setting on the disc menu).
- If you select a language that has a 3-letter-language code, the code will be displayed every time you change the audio language setting. If you select any other languages, "---" will be displayed instead. (Refer to page 61.)
- Audio Language selection cannot be made during rapid playback. (Refer to page 31.)
- If 4-digit-language code appears in the audio menu, refer to page 61.
- If the disc has no audio language, "Not Available" will be displayed on the screen.
- For DTS-CD (5.1 music disc), selecting audio streams or channels is not available.
- You can also change the audio setting from the option menu. Option menu can be called up by pressing **[OPTION]** on the unit.

Setting the BD Audio Mode

BD VIDEO

There are 2 options for the "BD Audio Mode" setting; either by setting the output to the secondary and interactive audio accompanied by the primary audio or by setting only the primary audio. Depending on the setting of the mode, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, or DTS-HD output changes between multi LPCM* and Bitstream.

1 **In stop mode with BD inserted, press [MODE].**

2 **Use [▲ / ▼] to select your desired setting.**

"Mix Audio Output":
If it is available, BD-video's secondary and interactive audio will be output with the primary audio.
- The secondary audio is the audio for the secondary video (Director's comment etc.) and the interactive audio is the audio for the interactive application (Button click sounds, etc.).

"HD Audio Output":
Only the primary audio will be output. Set this mode in order to output: Dolby Digital Plus, Dolby TrueHD, or DTS-HD audio of BD through HDMI connection.

3 **Press [RETURN] to exit.**

Note

- *LPCM (Linear Pulse Code Modulation) is an uncompressed audio signal. All the other formats (e.g., DTS®, Dolby, etc.) are compressed LPCM.
- In "Mix Audio Output" mode, if there is no secondary and interactive audio, the audio will be output as "HD Audio Output" mode.
- You can also set "BD Audio Mode" from the setup menu. Refer to page 45.

Enjoying Internet Radio with vTuner

With this unit, you can enjoy Internet radio with vTuner via the Internet. In order to listen to Internet radio, you must connect this unit to the Internet.

- **For the network connection, refer to "Network Connection with LAN" on page 15.**
- **For the network setup, refer to "Network Connection" on pages 51-55.**

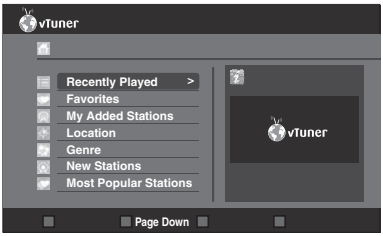
Internet Radio Playback

After you set up the network connection, follow the procedure below to listen to Internet radio.

1 **While opening screen is displayed, press [OK].**

- For opening screen, refer to page 11.
- Category list will appear.
- For the first time only, "Network Service Disclaimer" screen will appear. After confirming the content, use **[◄ / ►]** to select "Agree", then press **[OK]**.

2 **In the category list, use [▲ / ▼] to select the desired category, then press [OK].**



- Station list of a selected category will appear.
- For "Location" and "Genre", use **[▲ / ▼]** to select the desired location or genre after selecting the category, then press **[OK]**.

"Recently Played"	: List of stations which were recently played
"Favorites"	: List of your favourite radio stations
"My Added Stations"	: List of stations which are added on vTuner website (This category will appear only after you add stations on the vTuner website.)
"Location"	: List of stations categorised by location
"Genre"	: List of stations categorised by genre
"New Stations"	: List of new stations
"Most Popular Stations"	: List of popular stations
"Get access code"	: Displays the access code, which will be required when creating a vTuner account on your PC.
"Reset"	: Removes all stations in "Recently Played", "Favorites" and "My Added Stations".

3 **In the station list, use [▲ / ▼] to select the desired station, then press [OK].**

- After loading, playback of the selected station will start.
- To stop playback , press **[■ (stop)]**.
- To go back to the previous or next hierarchy, press **[◄]** or **[►]**.
- To start playback of the previous / next station in the list during playback, press **[I◄ (previous)]** or **[►I (next)]**.

4 **Press [TOP MENU] on the remote control to return to the category list or press [OPTION] on the unit or [SETUP] on the remote control to exit vTuner mode.**

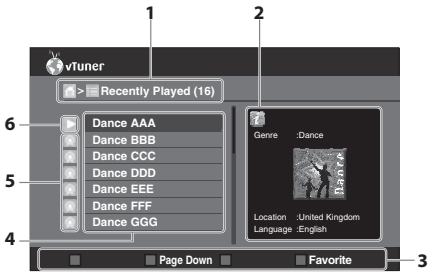
Note

- This unit cannot play back stations with audio format other than MP3 and WMA.
- Internet radio service may not be fully available with narrowband Internet connection. (e.g. 56k modem) When listening to Internet radio, use a broadband Internet connection. (For details, contact your Internet service provider.)
- Depending on the bit rate of a station or the network environment, it may take a while to complete loading the station or playback may not be available.
- Streaming audio may be interrupted during playback, when the vTuner server is busy.
- Some stations cannot be displayed in the list, depending on the network environment.
- If the loading time of a station exceeds 3 minutes, loading will be cancelled.
- The order of stations on the list depend on the information from vTuner server and may change without notice.
- You can view vTuner screen in following language in accordance with the setting of "Player Menu" (Refer to page 42).

Français	Slovenský
Polski	Magyar
Español	Русский
Čeština	

Guide to the Playback Screen

e.g.) Recently Played



1. **Directory**
2. **Current station information**
   If you press **[DISPLAY]** during playback, stream title information will be displayed (Only for a station broadcasting the stream title information).
3. **Colour key (RED / GREEN / YELLOW / BLUE button) guide**
4. **Station list**
5. **Station icon**
6. **Playback status**

Add to Favourite List

You can add your favourite stations to "Favorites" in the category list. To add your favourite stations, follow the procedure below.

1 **Follow steps 1 to 2 in "Internet Radio Playback" on page 38.**

2 **Use [▲ / ▼] to select the station you want to add to "Favorites", then press [BLUE].**

- The selected station is added to "Favorites".
- Confirmation message will appear.

3 **Press [OK].**

4 **Press [TOP MENU] on the remote control to return to the category list or press [OPTION] on the unit or [SETUP] on the remote control to exit vTuner mode.**

Note

- You can also add your favourite stations to "Favorites" on your PC. To add your favourite stations on your PC, visit http://go2service.vtuner.com/FE and create a vTuner account with the access code, which you can check from the category list. (Refer to page 38.)
- "My Favorites" will appear after you add a station to "Favorites" on this unit. (Your favourite station will also be added to "My Favorites".)

Remove from Favourite List

1. **Follow step 1 in "Internet Radio Playback" on page 38.**
2. **Use [▲ / ▼] to select "Favorites", then press [OK].**
3. **Use [▲ / ▼] to select the station you want to remove from "Favorites", then press [BLUE].**
   - Confirmation message will appear.
4. **Use [◀ / ▶] to select "Yes", then press [OK].**
   - The selected station is removed from "Favorites".
5. **Press [TOP MENU] on the remote control to return to the category list or press [OPTION] on the unit or [SETUP] on the remote control to exit vTuner mode.**

Add Stations on the vTuner Website

On the vTuner website, you can add stations which are not in the vTuner station list. To add stations, you must visit http://go2service.vtuner.com/FE and create a vTuner account with the access code for this unit.

1. **Follow step 1 in "Internet Radio Playback" on page 38.**
2. **Use [▲ / ▼] to select "Get access code", then press [OK].**
   - The access code for this unit will be displayed. Please take a note of the access code. (This access code will be required when creating a vTuner account.)
3. **On your PC, visit http://go2service.vtuner.com/FE and create your vTuner account.**
   - Follow the instructions given by the PC screen.
4. **Add stations by following the instructions given by the PC screen.**
   - The stations will be added to "My Added Stations".

Reset the Station List

You can remove all stations in "Recently Played", "Favorites" and "My Added Stations".

1. **Follow step 1 in "Internet Radio Playback" on page 38.**
2. **Use [▲ / ▼] to select "Reset", then press [OK].**
3. **Use [◀ / ▶] to select "Yes", then press [OK].**
   - All stations in "Recently Played", "Favorites" and "My Added Stations" are removed.
4. **Press [OK].**
5. **Press [TOP MENU] on the remote control to return to the category list or press [OPTION] on the unit or [SETUP] on the remote control to exit vTuner mode.**

FUNCTION SETUP

In the setup menu screen, you can access various kinds of menus, and customise them as you prefer. To call up the setup menu screen, press **[SETUP]** on the remote control or select "Setup" in the option menu. (Option menu can be called up by pressing **[OPTION]** on the unit.) Then follow the instructions below to navigate through the screen.

< Setup menu screen >

1. **Quick menu**
   Contains only the frequently used menus.
2. **Custom menu**
   Contains all the available setup menus.
3. **Initialise menu**
   Contains the menus that relates to the initialisation of the unit or the SD card.
4. **Menu window**
   Displays the available items for the selected menu.

How to Navigate through the Setup Menus

- Use **[▲ / ▼]** to move the highlight up and down.
- Press **[OK]** to access the options of an item, to switch settings, or to confirm the selection.
- Use **[◀ / ▶]** to switch settings in some menus.
- Press **[RETURN]** on the remote control to go back to the previous screen.
- Press **[SETUP]** on the remote control or **[OPTION]** on the unit to exit.

List of Setup Menus

Items with (*) can be accessed from "Quick" menu also.
The items highlighted in grey are the default setting.

	Category	Menus / Options			Description
Custom	Language	Audio	Original	Chinese	Turkish	Sets the audio language for BD-video, DVD-video or AVCHD playback. **"Original":** Activates the disc's original language. **"Other":** If you select "Other", enter 4-digit-code for the desired language (refer to page 61). Only the languages supported by the disc can be selected.
		BD VIDEO DVD VIDEO AVCHD	English	Japanese	Greek	
			German	Korean	Irish	
			French	Danish	Portuguese	
			Italian	Finnish	Polish	
			Spanish	Norwegian	Czech	
			Dutch	Icelandic	Slovak	
			Swedish	Hungarian	Bulgarian	
			Russian	Romanian	Other	
		Subtitle	Off	Chinese	Turkish	Sets the subtitle language for BD-video, DVD-video or AVCHD playback. **"Other":** If you select "Other", enter 4-digit-code for the desired language (refer to page 61). Only the languages supported by the disc can be selected.
		BD VIDEO DVD VIDEO AVCHD	English	Japanese	Greek	
			German	Korean	Irish	
			French	Danish	Portuguese	
			Italian	Finnish	Polish	
			Spanish	Norwegian	Czech	
			Dutch	Icelandic	Slovak	
			Swedish	Hungarian	Bulgarian	
			Russian	Romanian	Other	

	Category	Menus / Options			Description
Custom	Language	Disc Menu BD VIDEO DVD VIDEO AVCHD	English German French Italian Spanish Dutch Swedish Russian Chinese	Japanese Korean Danish Finnish Norwegian Icelandic Hungarian Romanian Turkish	Greek Irish Portuguese Polish Czech Slovak Bulgarian Other	Sets the language for disc menu. **"Other":** If you select "Other", enter 4-digit-code for the desired language (refer to page 61). Only the languages supported by the disc can be selected.
		Player Menu*	Auto (XXX) English Deutsch Français Polski Italiano Español Nederlands Čeština Slovenský Magyar Русский Română Български			Sets the language for player menu. (on-screen display menu) **"Auto":** Activates the Get & Set Menu Language function (refer to page 51). • "Auto" is available only when "fun-Link (HDMI CEC)" is set to "On". • Inside the parentheses next to "Auto" will be currently selected language.
		DivX Subtitle DivX®	English German French Italian Spanish Dutch Swedish Russian1 Russian2	Portuguese Polish		Sets the language for DivX® subtitle. The setting is effective only for the external subtitle.
	Video	TV Aspect	16:9 Wide 4:3 Pan & Scan 4:3 Letter Box 16:9 Squeeze			Sets the aspect ratio of the playback image to fit the LCD screen or a connected TV.
		HDMI Video Resolution • This feature is available only when the display device is connected by an HDMI cable.	Auto 480p/576p			Sets the resolution of the video signal being output from the HDMI OUT jack. **"Auto":** HDMI video resolution will be selected automatically depending on the connected HDMI device.
		HDMI Deep Color • This feature is available only when the display device is connected by an HDMI cable, and when it supports Deep Colour feature.	Auto Off			Reduces the posterisation effect of the playback picture. (Posterisation effect means is a better colour picture without losing colour detail in the original video.) **"Auto":** Reduces the posterisation effect by automatically outputting up to 36 bit colour whenever the unit recognises the connected display device supports Deep Colour feature. **"Off":** Outputs the standard 24 bit colour.

	Category	Menus / Options			Description
Custom	Video	LCD Control*	Brightness	-7~+7	default is 0	Sets and adjusts the picture quality of LCD screen.
			Contrast	-7~+7	default is 0	
			Sharpness	-7~+7	default is 0	
			Hue	-7~+7	default is 0	
			Saturation	-7~+7	default is 0	
			Monitor	On		Sets whether to turn on or off the LCD screen.
				Off		
			Default			Sets all the LCD Control setting to the default setting.
		Progressive Mode	Auto			Sets the optimum progressive mode for the image material. **"Auto":** The progressive mode will detect 24-frame film material (movies) and automatically select appropriate progressive mode. **"Video":** Suited for playing back video material discs (TV shows or animation).
			Video			
		Still Mode	Auto			Adjusts picture resolution and quality in still mode. **"Auto":** Automatically selects the best resolution setting ("Frame" or "Field") based on the data characteristics of the pictures. **"Field":** Stabilises the pictures, although the picture quality may become coarse due to the limited amount of data. Select "Field" when the pictures are still unstable even if "Auto" is selected. **"Frame":** Displays relatively motionless pictures in higher resolution. "Frame" improves the picture quality, although it may unstabilise the pictures due to alternate output of 2-field data. • An individual picture on the screen is called "Frame", which consists of two separate images called "Field". Some pictures may be blurred at the auto setting in "Still Mode" setting due to their data characteristics.
			Field			
			Frame			

Note for "HDMI Video Resolution"

- Even if you set "HDMI Video Resolution" setting to "Auto", when this unit is connected to a DVI compatible display devices with an HDMI-DVI cable, 480p/576p signal will be output.
- Video and audio signals may be distorted temporarily when switching to / from the HDMI output mode.
- You cannot change the video resolution during Blu-ray Disc playback. To change the resolution, stop playback.
- In order to get natural and high quality film reproduction of 24-frame film material, use an HDMI cable (High Speed HDMI Cable is recommended) and select "Auto" if the connected TV is compatible with 1080p24 frame input.
- Even if the connected TV is compatible with 1080p24 frame input and you set "HDMI Video Resolution" setting to "Auto", when the contents of the disc are not compatible for 1080p24 frame, 1080p60 frame will be output.
- If the picture is not output properly to the TV because of "HDMI Video Resolution" setting, press and hold **[▶ (play)]** on the unit for more than 5 seconds. The setting will be reset to the default automatically.
- With some copy-protected BD-video, the video image may only be output from HDMI OUT jack.
- Refer also to your TV's manual.

	Category	Menus / Options				Description
Custom	Audio	BD Audio Mode	Mix Audio Output HD Audio Output			For BD, selects whether to output the secondary and interactive audio with primary audio if it is available or only the primary audio. Refer to "Setting the BD Audio Mode" on page 37. **"Mix Audio Output":** The audio for the secondary video and the interactive application will be output together with the audio for the primary video. **"HD Audio Output":** Outputs only the primary audio. Set this mode in order to output Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD audio of BD through HDMI connection.
		HDMI Audio Out • This setting is available only when the TV is connected by an HDMI cable.	HDMI Multi(Normal)			The multi-channel audio signals are output from HDMI OUT jack with bitstream or LPCM.
			HDMI Multi(LPCM) • The multi-channel audio signals are output from HDMI OUT jack with LPCM.	Speaker Size • Selects the desired speaker to set. Then change the setting by referring to the descriptions.	Front: Large / Small Center: Large / Small Subwoofer: On Surround: Large / Small Surround Back: Large / Small	**"Large":** For the large speakers with strong low frequency reproduction capabilities. **"Small":** For the small speakers which do not provide strong bass sound. You cannot change the setting of "Subwoofer". Speakers which are not supported by the connected device will be displayed in gray.
					Default	Select "Default", then press **[OK]** to reset "Speaker Size" setting to the default.

	Category	Menus / Options					Description
Custom	Audio	HDMI Audio Out • This setting is available only when the TV is connected by an HDMI cable.	HDMI Multi(LPCM) • The multi-channel audio signals are output from HDMI OUT jack with LPCM.	Channel Level • Tests or sets the volume for each speaker.	Test Tone • "Test Tone" is the test tone which can be output from the speakers so you can adjust the volume for each speaker.	Off Manual Auto	Select "Off" to deactivate "Test Tone". Select "Manual", then press **[OK]** to manually set the volume for the desired speaker. Select "Auto", then press **[OK]** to automatically output the test tone from each speaker.
					Front Lch Center Subwoofer Front Rch Surround Rch Surround Back Rch Surround Back Lch Surround Lch	0dB to -12dB (Default : 0dB)	If you have selected "Manual" in "Test Tone", select the desired speaker to set and adjust the volume for the selected speaker. If you select "Auto" in "Test Tone", test tone will automatically be output in order. Adjust the volume of the speaker that outputs the test tone.
					Default		Select "Default", then press **[OK]** to reset "Channel Level" setting to the default.
				Delay Time • This is a parameter for optimizing the timing at which the sound outputs from the speakers according to the distance from the listening position.	Distance	Feet Meters	Select the distance from the listening position to the speaker to get the ideal delay time.
					Front Center	0m to 18m (Default : 3.6m)	
					Surround Surround Back	0m to 18m (Default : 3m)	
					Default		Select "Default", then press **[OK]** to reset "Delay Time" setting to the default.
			Audio Mute				Mutes the HDMI audio signal.
		DRC	Auto On Off				Sets whether to compress the range of sound volume (dynamic range control) when Dolby Digital, Dolby Digital Plus or Dolby TrueHD audio is played back.

	Category	Menus / Options			Description
Custom	Parental • Refer to page 50 for more information.	Password input field	BD Rating Level	All Age Setting	Sets the rating level for the BD playback.
			DVD Rating Level	All 8 to 1	Sets the rating level for the DVD playback.
			Password Change	Password input field	Sets the new password for "Parental" setting.
	Others	Angle Icon	On Off		Sets whether to display the angle icon on the screen when playing back the scene with various angles.
		Battery Icon	On Off		Sets whether to display the battery icon.
		DivX® VOD DivX	Registration Code	Your registration code is : ○○○○○○○○○○ To learn more visit www.divx.com/vod	This menu item provides you with the DivX® VOD registration code. The DivX® registration code is required when downloading DivX® VOD files from the Internet. To learn more about DivX® VOD, visit www.divx.com/vod.
			Deactivation Code	Your deactivation code is : ○○○○○○○○ To learn more visit www.divx.com/vod	This menu item provides you with the DivX® VOD deactivation code. The DivX® deactivation code is required when re-downloading DivX® VOD files from the Internet after deactivating. To learn more about DivX® VOD, visit www.divx.com/vod.
			Deactivation	Yes No	This menu deactivates this unit and provides you with new registration code and deactivation code in order to download DivX® VOD files from the Internet.
		fun-Link (HDMI CEC) • This feature is available only when the display device is connected with an HDMI cable, and when it supports fun-Link (HDMI CEC) feature. • Refer to page 51 for more information.	On Off		Sets whether to utilise the fun-Link(HDMI CEC) function.
		Mode Select*	Disc SD Card Network		Select the media to play back.

	Category	Menus / Options				Description
Custom	Others	Network Connection* • Refer to pages 51-55 for more information.	Connection Test			Perform a network connection test. After you change IP address or DNS setting, always perform this test.
			Easy			If you select "Easy", connection test will automatically start.
			Custom	IP Address Setting	Auto (DHCP)	Set the IP address. In most cases, you can connect to the Internet without making any changes to the default setting.
					Manual	IP Address
						Subnet Mask
						Default Gateway
				DNS Setting	Auto (DHCP)	Set the DNS setting. In most cases, you can connect to the Internet without making any changes to the default setting.
					Manual	Primary DNS
						Secondary DNS
				Proxy Setting	Do Not Use	Set the proxy server. In most cases, you can connect to the Internet without using proxy server.
					Use	Proxy Address
						Proxy Port
				Connection Speed	Auto 10BASE Half 10BASE Full 100BASE Half 100BASE Full	Set the connection speed. In most cases, you can connect to the Internet without making any changes to the default setting.
				BD-Live Setting	Allow Limited Allow Prohibit	You can restrict Internet access when BD-Live functions are used.
				MAC Address		You can check the MAC address.
			Disable			Deactivate the network connection.
			Disclaimer			Displays the network service disclaimer.

	Category	Menus / Options		Description
Custom	Others	Software Update • This setting is available only when the AC adapter is connected. • Refer to page 55 for more information.	Current Version	Indicates the current software version.
			Disc Update No Yes	Allows you to update this unit's software using a disc.
			Network Update No Yes	Allows you to update this unit's software via the Internet.
Initialise	Reset Settings	No Yes	• Refer to page 57 for more information.	Resets all the settings, except for "Parental", "Network Connection" and "Mode Select" to the factory default.
	Format SD Card	No Yes		Re-formats SD card.
	Erase Saved BD-ROM Data (Player)	No Yes		Re-formats local storage (Player) used for BD-Java.
	Erase Saved BD-ROM Data (SD Card)	No Yes		Re-formats local storage (SD card) used for BD-Java.
	Reset Network Settings	No Yes		Initialises network settings.

Parental

[SETUP] ➡ "Custom" ➡ "Parental"

Some BD-videos or DVD-videos feature a parental lock level. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will play back. This feature prevents your children from viewing inappropriate material.

1 **Use [▲ / ▼] to select "🔒", then press [OK].**

- Password input field appears.

2 **If a password has not been set, follow A).**

If a password has already been set, follow B).

If you want to change the password, follow B) and C).

If you forget the password, follow D).

A) Enter 4 digit password using **[the Number buttons]**.
- "4737" cannot be used.

B) Enter 4 digit password.

C) Select "Password Change", then press **[OK]**. Enter the new password.

D) Enter "4737". Current password and "Parental" settings are now cleared. Enter a new password.

3 **Select the desired item to set the rating level for, then press [OK].**

4 **Select the desired rating level, then press [OK].**

<BD rating level>

All	Sets no limit.
Age Setting	Allows you to enter the age to limit, and prohibits the playback of a disc whose rating level exceeds the age setting entered here. (e.g. For age 6, enter **[6]** + **[OK]**. For age 15, enter **[1]**, **[5]** + **[OK]**.)

<DVD rating level>

All	Parental control is inactive; all discs can be played back.
8	DVD software of any grades (adult / general / children) can be played back.
7	[NC-17] No one under 17.
6	[R] Restricted; under 17.
5	[PGR] Parental Guidance Recommended.
4	[PG-13] Unsuitable for children under 13.
3	[PG] Parental Guidance suggested.
2	[G] General audience.
1	Suitable for children.

To Cancel Parental Lock Temporarily

Some discs allow you to cancel the parental lock temporarily. With those discs, the message below will appear when you try to play them back.
"Enter current password."
Follow the instruction which appears on the screen to cancel the parental lock.

fun-Link(HDMI CEC)

[SETUP] ➡ "Custom" ➡ "Others" ➡ "fun-Link(HDMI CEC)"

You can control all fun-Link(HDMI CEC) compatible components connected via an HDMI cable by simple button operation on the remote control for this unit. In order to enable the function, you need to set "fun-Link(HDMI CEC)" to "On".

One Touch Play

fun-Link(HDMI CEC) operations are performed using remote control buttons shown on page 51. The TV will automatically be turned ON and switched to the appropriate input channel.

Buttons for one touch play:
When this unit is turned on, the TV also is turned on and the appropriate external input channel will be selected automatically. The appropriate external input channel can also be selected on your TV automatically when you press **[▶ (play)]**, **[⏮ (previous)]**, **[⏭ (next)]**, **[the Number buttons]**, **[DISPLAY]**, **[TOP MENU]**, or **[POP MENU / MENU]** when the unit's power is on. (Buttons other than **[▶ (play)]** work only with disc inserted.)

Standby

When you press and hold **[STANDBY/ON]** for 2 seconds, it turns off the power of the TV first and then turns off the power of this unit. When the connected fun-Link(HDMI CEC) compatible display device is turned off, this unit may also turn off.

System Information

Get & Set Menu Language

The unit recognises the OSD language set for the TV and automatically sets the same language as the player menu language (OSD menu language) for this unit.

- This feature is available only when "Auto(XXX)" is selected in "Player Menu" in the setup menu. (Refer to page 42.)

Network Connection

[SETUP] ➡ "Custom" ➡ "Others" ➡ "Network Connection"

Set up the network connection settings in order to use BD-Live, vTuner service or network update function.

Connection Test

After you made IP address / DNS settings or when a LAN cable is connected, always perform the connection test to check if the connection is correctly made.

1 **In stop mode, press [SETUP].**

2 **Use [▲ / ▼] to select , then press [OK].**

3 **Use [▲ / ▼] to select "Others", then press [OK].**

4 **Use [▲ / ▼] to select "Network Connection", then press [OK].**

5 **Use [▲ / ▼] to select "Connection Test", then press [OK].**

Connection test will start automatically and the test result will appear right after the connection test finishes.

"Testing..."	: The test is in progress.
"Pass"	: Connection test is successfully completed.
"Fail"	: Connection test failed. Check the connection settings.

Press **[OK]** to go to the list of network status confirmation screen.

6 **Press [OK] to go back to the previous screen, or press [SETUP] to exit.**

Note

- If the connection test passes, you are ready to use BD-Live, vTuner service or network update function using the Internet without making any extra settings.
- If the connection test fails, you may need to change the MAC address settings on your router. You can check the MAC address of this unit on "Custom" screen.
- "Connection Test" is not available when "Disable" is selected in "Network Connection".

Easy

Network settings are set to the following settings initially. (In most cases, you can connect to the Internet without making any changes to the default settings.)

- IP Address Setting	Auto(DHCP)
- DNS Setting	Auto(DHCP)
- Proxy Setting	Do Not Use
- Connection Speed	Auto
- BD-Live Setting	Allow

If you want to set the network settings back to the default settings as above (except "BD-Live Setting"), follow the procedure below.

1 **Follow steps 1 to 4 in "Connection Test" on page 51.**

2 **Use [▲ / ▼] to select "Easy", then press [OK].**

- The unit will start the connection test automatically and the test result will appear right after the test finishes.
- After the connection test finishes, press **[OK]** to go to network status confirmation screen.

3 **Press [OK] to activate the network settings and set the network connection automatically. Press [SETUP] to exit.**

Note

- The setting of "BD-Live Setting" will not be set back to the default, even if you follow the procedure.

Custom

In the following cases, select "Custom" to set each setting as necessary.

- When connection test failed with the setting of "Easy".
- When instructed by your Internet service provider to make specific settings in accordance with your network environment.

1 Follow steps 1 to 4 in "Connection Test" on page 51.

2 Use [▲ / ▼] to select "Custom", then press [OK].

3 Use [▲ / ▼] to select "IP Address Setting", then press [OK] repeatedly to select the desired setting.

"Auto(DHCP)" :	If your router has DHCP server function, select "Auto(DHCP)".
"Manual" :	If your router does not have DHCP server function, select "Manual".

If you select "Manual", follow the instructions below to set the IP address and DNS.

3-a) Use **[▲ / ▼]** to select "IP Address", "Subnet Mask" or "Default Gateway", then press **[OK]**. IP address setting screen will appear. Enter IP address, subnet mask or default gateway with cursor buttons and number buttons.
- Enter the IP address number after checking the specifications of your router.
- If the IP address is unknown, check the IP address of other devices. (e.g. PC connected via LAN cable) and assign a different number from those of other devices.

3-b) After you enter all correctly, press **[OK]**.
- Confirmation message will appear. Select "Yes" to complete the settings.

3-c) Use **[▲ / ▼]** to select "Primary DNS" or "Secondary DNS", then press **[OK]**. DNS setting screen will appear. Enter primary DNS or secondary DNS with cursor buttons and number buttons.
- Enter the DNS addresses provided by your Internet provider.
- If the DNS address is unknown, check the DNS address of other devices (e.g. PC connected via LAN cable) and assign the same DNS address.

3-d) After you enter all correctly, press **[OK]**.
- Confirmation message will appear. Select "Yes" to complete the settings.

4 Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.

Note

- The range of input numbers is between 0 and 255.
- If you enter a number larger than 255, the number will automatically be 255.
- The manually entered addresses will be saved even if you change the setting to "Auto(DHCP)".
- When you enter a wrong number, press **[CLEAR]** to cancel. (The number will be back to "0".)
- If you want to enter 1 or 2 digit number in one cell, press [▶] to move on to the next cell.
- If the entered IP address or the default gateway or primary DNS address are the same as the default setting, IP address setting will be set to "Auto(DHCP)". (The manually entered number will be saved.)
- When IP address setting is set to "Manual", the setting of DNS setting will automatically be "Manual" and when IP address setting is set to "Auto(DHCP)", you can set either "Auto(DHCP)" or "Manual" for DNS setting.

Proxy Setting

1 Follow steps 1 to 4 in "Connection Test" on page 51.

2 Use [▲ / ▼] to select "Custom", then press [OK].

3 Use [▲ / ▼] to select "Proxy Setting", then press [OK] repeatedly to select the desired setting.

- For default settings, select "Do Not Use".
- If you need to change the proxy setting as instructed by your Internet service provider to set the designated proxy address and port, select "Use".

If you select "Use", follow the instructions below to set the proxy address and proxy port.

3-a) Use **[▲ / ▼]** to select "Proxy Address", then press **[OK]**. Proxy address setting screen will appear. Enter proxy address.
- The keyboard screen will appear.

[▲ / ▼ /◄ / ►]	: Move the highlight.
[the Number buttons]	: Enter number.
[OK]	: Enter the highlighted item.
[CLEAR]	: Clear the entered number or word.

3-b) After you enter proxy address correctly, press **[BLUE]**.
- Confirmation message will appear. Select "Yes" to complete the settings.

3-c) Use **[▲ / ▼]** to select "Proxy Port" , then press **[OK]**. Proxy port setting screen will appear. Enter proxy port number with number buttons.

3-d) After you enter proxy port correctly, press **[OK]**.

4 Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.

Note

- The range of input numbers for the port number is between 0 and 65535. (If you enter a number larger than 65535, it will be regarded as 65535.)
- For proxy port, certain ports might be closed, blocked or unusable depending on your network environment.

Connection Speed

You can set connection speed as your preference. (The default setting is "Auto".)

1 Follow steps 1 to 4 in "Connection Test" on page 51.

2 Use [▲ / ▼] to select "Custom", then press [OK].

3 Use [▲ / ▼] to select "Connection Speed", then press [OK].

4 Use [▲ / ▼] to select the desired setting, then press [OK].

"Auto":
Set the appropriate connection speed automatically, in accordance with your network environment.
"10BASE Half":
Set the connection speed to "10BASE Half".
"10BASE Full":
Set the connection speed to "10BASE Full".
"100BASE Half":
Set the connection speed to "100BASE Half".
"100BASE Full":
Set the connection speed to "100BASE Full".

5 Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.

Note

- Choose a connection speed in accordance with your network environment.
- The network connection may be disabled depending on the device, when the settings are changed.

BD-Live Setting

You can limit Internet access for BD-Live discs. (The default setting is "Allow".)

1. **Follow steps 1 to 4 in "Connection Test" on page 51.**
2. **Use [▲ / ▼] to select "Custom", then press [OK].**
3. **Use [▲ / ▼] to select "BD-Live Setting", then press [OK].**
4. **Use [▲ / ▼] to select the desired setting, then press [OK].**
   "Allow":
   Internet access is permitted for all BD-Live contents.
   "Limited Allow":
   Internet access is permitted only for BD-Live contents which have content owner certificates. Internet access without the certificates is prohibited.
   "Prohibit":
   Internet access is prohibited for all BD-Live contents.
5. **Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.**

MAC Address

You can check the MAC address of this unit. "MAC Address" is for viewing only.

Disable

Deactivate all the network connection and settings.

1. **Follow steps 1 to 4 in "Connection Test" on page 51.**
2. **Use [▲ / ▼] to select "Disable", then press [OK].**
3. **Press [RETURN] to go back to the previous screen, or press [SETUP] to exit.**

Note

- The network connection can be reactivated by setting the network connection to "Easy" or "Custom".

Software Update

[SETUP] ➡ "Custom" ➡ "Others" ➡ "Software Update"

To select the "Software Update", you must connect the AC adapter.

Current Version

You can confirm the current software version.

1. **In stop mode, press [SETUP].**
2. **Use [▲ / ▼] to select , then press [OK].**
3. **Use [▲ / ▼] to select , then press [OK].**
4. **Use [▲ / ▼] to select "Software Update", then press [OK].**
5. **Use [▲ / ▼] to select "Current Version", then press [OK].**
6. **Press [OK] or [RETURN] to exit.**

Note

- Please visit www.funai.eu to download the latest software version.

Disc Update

You can update the software by using a disc.

1. **Prepare a software update disc: Please access www.funai.eu, and download the latest software to a blank disc by following the direction described on the site.**
   - Use a blank disc and download one software per a disc.
   - For more details on how to download the software, please refer to the site.
2. **Follow steps 1 to 4 in "Current Version" on page 55.**
3. **Use [▲ / ▼] to select "Disc Update", then press [OK].**
   - Confirmation message will appear.

4 Use [▲ / ▼] to select "Yes", then press [OK].

- Press **[▲ OPEN]** on the unit to open the disc lid.
- Insert the software update disc created at step 1 and then close the disc lid.

5 After completing loading disc, confirmation message will appear. Select "Yes" and press [OK] to start updating.

- It may take a while to complete the updating.

6 After the disc update finishes, this unit will restart.

- Press **[▲ OPEN]** on the unit to open the disc lid and remove the disc.

Note

- You can check the current software version in "Current Version" in "Software Update" menu.
- Please do not disconnect the AC adapter while executing the "Disc Update".
- All settings will remain the same even if you update the software version.
- After updating finishes, a message will appear. This message will not be cleared until the disc is removed from the unit.
- "Disc Update" is available only when the AC adapter is connected.
- After the start of "Disc Update", LCD screen may become black after a little while. Please do not try to operate the unit as updating is still in progress. (Screen will get back to normal after updating finishes.)
- While executing the "Disc Update", CHARGE indicator and STANDBY/ON indicator flash alternately.

Network Update

You can update the software by connecting the unit to the Internet.

1 Follow steps 1 to 4 in "Current Version" on page 55.

2 Use [▲ / ▼] to select "Network Update", then press [OK].

3 Use [▲ / ▼] to select "Yes", then press [OK].

- This unit will then start checking for the latest software version.

4 Confirmation message will appear. Select "Yes", then press [OK].

- The unit will start downloading the latest software version.

5 When the download completes, confirmation message will appear. Press [OK].

- The unit will start updating the software version.
- It may take a while to complete the updating.

6 After updating finishes, this unit will restart.

Note

- In order to update the software via the Internet, you must connect the unit to the Internet and set up necessary settings.
- For the network connection, refer to "Network Connection with LAN" on page 15.
- For the network setup, refer to "Network Connection" on pages 51-55.
- Please do not disconnect the AC adapter or LAN cable while executing the "Network Update".
- All settings will remain the same even if you update the software version.
- "Network Update" is available only when the AC adapter is connected.
- After the start of "Network Update", LCD screen may become black after a little while. Please do not try to operate the unit as updating is still in progress. (Screen will get back to normal after updating finishes.)
- While executing the "Network Update", CHARGE indicator and STANDBY/ON indicator flash alternately.

Initialise

[SETUP] ➡ "Initialise"

Initialises the setting or SD Memory Card.

1 **In stop mode, press [SETUP].**

2 **Use [▲ / ▼] to select , then press [OK].**

3 **Use [▲ / ▼] to select a desired option, then press [OK].**

"Reset Settings":
Resets the setup menu to the default. The setting for "Parental", "Network Connection" and "Mode Select" will not be reset.

"Format SD Card" (Available only when an SD Memory Card is inserted.):
Initialises the SD Memory Card.

"Erase Saved BD-ROM Data (Player)":
Clears the data saved for the BD-ROM contents, such as BD-ROM game scores, on this player.

"Erase Saved BD-ROM Data (SD Card)" (Available only when an SD Memory Card is inserted.):
Clears the supplemental data for the BD-ROM playback, such as subtitle data, from the SD Memory Card.

"Reset Network Settings":
Reset the network setting to the default.

4 **Confirmation message will appear. Use [▲ / ▼] to select "Yes", then press [OK].**

- Final confirmation message will appear. Press **[OK]**.

5 **Press [SETUP] to exit.**

Caution

- Do not remove the SD Memory Card while executing the "Format SD Card" or the "Erase Saved BD-ROM Data (SD Card)". It damages the card.
- "Format SD Card" and "Erase Saved BD-ROM Data (SD Card)" are not available when a Blu-ray Disc is in the unit.

OTHERS

Troubleshooting

If the unit does not perform properly when operated as instructed in this manual, check the unit, consulting the following checklist.

Problem	Solution
No power.	- Check if the AC adapter or battery pack is properly connected. - Charge the battery pack. - This unit has protection circuitry which will be activated when the unit becomes too cold or hot. Use this unit between 5°C to 35°C. - Disconnect the AC adapter and detach battery pack, and wait for 5-10 seconds and then connect them again.
No picture on the LCD screen.	- LCD screen is off when a cable is connected to AV OUT jack or HDMI OUT jack is outputting the picture. To display pictures on LCD screen, disconnect the cable from AV OUT jack or HDMI OUT jack. - Set "Monitor" to "On" (Refer to page 16).
Cannot charge the battery pack or battery error appears on the LCD screen.	- Check if the connections are made securely and correctly. - The charging time increases when the temperature is too hot or cold. - The battery pack has reached the end of its service life. (It can be recharged about 300 times.) - Please consult an authorised service centre.
No sound or picture on the connected TV via AV cable.	- Check if the connections are made securely and correctly. - Check if the connected TV is turned on.
No audio / video signal on the display device via HDMI cable.	- If the unit is connected to the unauthorised display device with an HDMI cable, the audio / video signal may not be output. - Check whether the connected TV supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.) - Check whether the output format of this unit (HDMI FORMAT) matches the supported input format of other connected device. - Perform an HDMI cable hotplug, wherein you disconnect the HDMI cable from the TV and this unit and then reconnect it to both the devices while they are powered on. - Ensure that your HDMI cable is certified.
Distorted picture.	- Sometimes a small amount of picture distortion may appear. This is not a malfunction. - When connecting to the TV, connect this unit directly to the TV. If the audio / video cables are connected to a VCR, pictures may be distorted due to the copy right protection system.
Completely distorted picture or black / white picture with BD / DVD.	- Make sure the disc is compatible with this unit.

Problem	Solution
No sound or distorted sound.	- The speaker is off if headphones, HDMI cable or AV cable are connected. - Adjust the volume. - Check the HDMI connections. - Check the settings in "Audio" menu.
Picture freezes momentarily during playback.	- Check the disc for fingerprints / scratches and clean with a soft cloth wiping from centre to outer edge. - Clean the disc.
Disc cannot be played back.	- Clean the disc. - Ensure the disc label is facing up. - Check if the disc is defective by trying another disc. - Cancel the ratings control or change the control level. - Insert a correct region code disc that can be played back on this unit.
SD card cannot be read.	- Format on the card does not match which is accepted by this unit or the card is not compatible (microSDHC and miniSDHC Memory Cards).
No return to start-up screen when disc is removed.	- Reset this unit by turning it off for 30 seconds, then on again.
The unit does not respond to the remote control.	- Aim the remote control directly at infrared sensor window. - Reduce the distance to infrared sensor window. - Replace the battery in the remote control. - Re-insert the battery with the + side facing up.
Buttons do not work or the unit stops responding.	- To completely reset the unit, press and hold **[STANDBY/ON]** on the unit for 10 seconds to shut down the unit or disconnect the AC adapter and detach the battery pack for 5-10 seconds.
The unit does not respond to some operating commands during playback.	- Operations may not be permitted by the disc. Refer to the instructions of the disc.
The unit cannot read BD / DVD/ CD.	- Condensation? (Let sit 1 or 2 hours) - Make sure the disc is compatible with this unit. (For playable discs, refer to page 17. - Wipe the dirt off the disc or replace the disc.
Angle does not switch.	- The angle cannot be switched for BD / DVD which do not contain multiple angles. In some cases multiple angles are only recorded for specific scenes.
Playback does not start when the title is selected.	- Check the settings in "Parental" menu.
The password for rating level has been forgotten.	- Enter the default password "4737", then your forgotten password will be cleared.
Cannot connect to the network.	- Check if the LAN cable connection is properly made. - Turn on the modem or broadband router. - Check the network setting. - Check if the broadband router and/or modem is correctly connected. - Check the "BD-Live Setting". - When connecting directly to a modem via a LAN cable, you might need to power cycle the modem to reset settings on the modem.

Problem	Solution
Cannot connect to the network while my PC is connected to the network.	- Check the content of your Internet service contract to see if your Internet service provider prevents multiple terminals connecting at the same time.
The capacity of the SD card decreased.	- Data may be written to the SD card when a BD-video that supports the virtual package is used and an SD card is in the slot.
Cannot use the BD-Live function or download of data does not perform properly.	- Insert an SD card with enough capacity (1GB or more). - Check if an SD card is correctly inserted. - Make sure the write-protect switch on the SD card is not enabled.
Cannot play back BD-video (BD-ROM Profile 2.0).	- Insert an SD card(1GB or more) which is formatted on this unit. Some discs with BD-Live function require memory when playing back the content. - Do not remove the card during playback. - Make sure the write-protect switch on the SD card is not enabled.
Cannot play back Internet radio.	- Check if the network connection is properly made. - Check the firewall setting of the modem or router. - For some stations, playback is not available on this unit.
Cannot play back the Internet radio station in my favourite list.	- The station is busy or no longer active. - Try again later.
The audio of Internet radio station interrupted.	- vTuner server, station or the Internet connection is busy. - The bit rate of the station is high.
The quality of the Internet radio audio is poor or noise occurs during playback of Internet station.	- The bit rate of the station is low.

Note

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this manual for details on correct operations.
- Some functions are prohibited on some discs.

Language Code List

Language	Code
A-B	
Abkhazian	4748
Afar	4747
Afrikaans	4752
Albanian	6563
Amharic	4759
Arabic	4764
Armenian	5471
Assamese	4765
Aymara	4771
Azerbaijani	4772
Bashkir	4847
Basque	5167
Bengali;Bangla	4860
Bhutani	5072
Bihari	4854
Bislama	4855
Breton	4864
Bulgarian [BUL]	4853
Burmese	5971
Byelorussian	4851
C-E	
Cambodian	5759
Catalan	4947
Chinese [CHI]	7254
Corsican	4961
Croatian	5464
Czech [CZE]	4965
Danish [DAN]	5047
Dutch [DUT]	6058
English [ENG]	5160
Esperanto	5161
Estonian	5166
F-H	
Faroese	5261
Fiji	5256
Finnish [FIN]	5255
French [FRE]	5264
Frisian	5271
Galician	5358
Georgian	5747
German [GER]	5051
Greek [GRE]	5158
Greenlandic	5758
Guarani	5360
Gujarati	5367
Hausa	5447
Hebrew	5569
Hindi	5455
Hungarian [HUN]	5467
I-K	
Icelandic [ICE]	5565
Indonesian	5560
Interlingua	5547
Interlingue	5551
Inupiak	5557
Irish [IRI]	5347
Italian [ITA]	5566
Japanese [JPN]	5647
Javanese	5669
Kannada	5760
Kashmiri	5765
Kazakh	5757
Kinyarwanda	6469
Kirghiz	5771
Kirundi	6460
Korean [KOR]	5761
Kurdish	5767
L-N	
Laothian	5861
Latin	5847
Latvian;Lettish	5868
Lingala	5860
Lithuanian	5866
Macedonian	5957
Malagasy	5953
Malay	5965
Malayalam	5958
Maltese	5966
Maori	5955
Marathi	5964
Moldavian	5961
Mongolian	5960
Nauru	6047
Nepali	6051
Norwegian [NOR]	6061
O-R	
Occitan	6149
Oriya	6164
Oromo (Afan)	6159
Panjabi	6247
Pashto;Pushto	6265
Persian	5247
Polish [POL]	6258
Portuguese [POR]	6266
Quechua	6367
Rhaeto-Romance	6459
Romanian [RUM]	6461
Russian [RUS]	6467
S	
Samoan	6559
Sangho	6553
Sanskrit	6547
Scots Gaelic	5350
Serbian	6564
Serbo-Croatian	6554
Sesotho	6566
Setswana	6660
Shona	6560
Sindhi	6550
Singhalese	6555
Siswat	6565
Slovak [SLO]	6557
Slovenian	6558
Somali	6561
Spanish [SPA]	5165
Sundanese	6567
Swahili	6569
Swedish [SWE]	6568
T	
Tagalog	6658
Tajik	6653
Tamil	6647
Tatar	6666
Telugu	6651
Thai	6654
Tibetan	4861
Tigrinya	6655
Tonga	6661
Tsonga	6665
Turkish [TUR]	6664
Turkmen	6657
Twi	6669
U-Z	
Ukrainian	6757
Urdu	6764
Uzbek	6772
Vietnamese	6855
Volapuk	6861
Welsh	4971
Wolof	6961
Xhosa	7054
Yiddish	5655
Yoruba	7161
Zulu	7267

Note

- If you choose a language that has a 3-letter-language code (written in bracket), the code will be displayed every time you change the audio or subtitle language setting on page 41. If you choose any other languages, "---" will be displayed instead.

Specifications

General		
Signal system	NTSC/PAL colour	
Power requirements	DC 12 V (DC IN terminal) DC 7.2 V (Battery pack)	
Power consumption	Play mode + Recharge mode Play mode Recharge mode Standby mode	: 28 W (during BD playback) : 18 W (during BD playback) : 15 W (in standby mode) : 0.5 W
AC adapter	Power source Power consumption	: AC 100-240 V, 50/60 Hz : 12 V 2A
Dimensions (width x height x depth)	Main unit LCD screen	: 261 x 43 x 195 mm : 10.1 inches / non-glare / 1024 x 600 pixel
Weight	1.32 kg	
Operating temperature	5°C to 35°C	
Operating humidity	Less than 80 % (no condensation)	

Terminals		
SD card slot slot x 1		
DC input	: 12 V, 2000mA	
AV output mini jack x 1	Composite-video Audio L/R	: 1 Vp-p (75 Ω) : 2 Vrms (1 kΩ)
Headphone output mini jack x 1	φ3.5mm stereo mini jack	
HDMI output HDMI jack x 1	Video: 480p/576p, 720p, 1080i, 1080p, 1080p24/Audio	
LAN terminal	10BASE-T / 100BASE-TX	

Note

- The specifications and design of this product are subject to change without notice.

Network Service Disclaimer

Dear Customer :
Please note FUNAI will not be responsible for Internet services and contents.
In addition, FUNAI will not charge you for any data transferred from the Internet,
but it might cause additional costs depending on your contract with the Internet provider.

Content and services made available through this product are transmitted by third parties by means of networks and transmission facilities over which Company has no control and third party services may be terminated or interrupted at any time, and Company makes no representation or warranty that any content or service will remain available for any period of time. Without limiting the generality of this disclaimer, Company expressly disclaims any responsibility for any interruption or suspension of any content or service made available through this product. Company is not responsible for customer service related to the content and services. Any question or request for service relating to the content or services should be made directly to the respective content and service providers.

THIRD PARTY CONTENT AND SERVICES MADE AVAILABLE THROUGH THIS PRODUCT ARE PROVIDED "AS IS." COMPANY DOES NOT WARRANT CONTENT OR SERVICES SO PROVIDED, FOR ANY PURPOSE WHATSOEVER. COMPANY EXPRESSLY DISCLAIMS ANY WARRANTIES, EXPRESS OR IMPLIED INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ACCURACY, VALIDITY, TIMELINESS, LEGALITY, SUITABILITY, OR QUALITY OF ANY CONTENT OR SERVICE MADE AVAILABLE THROUGH THIS PRODUCT.

IN NO EVENT SHALL COMPANY BE LIABLE FOR, ANY DAMAGES, WHETHER ARISING IN CONTRACT OR TORT, INCLUDING WITHOUT LIMITATION, ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, LOST PROFITS, ATTORNEY FEES, EXPENSES, OR ANY OTHER DAMAGES ARISING OUT OF, OR IN CONNECTION WITH, ANY CONTENT (OR ANY INFORMATION CONTAINED THEREIN) OR SERVICE PROVIDED TO THE USER OR ANY THIRD PARTY, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

All content and services accessible through this product belong to third parties and are protected by copyright, patent, trademark and/or other intellectual property rights. Such content and services are provided solely for the User's personal noncommercial use. User may not use any content or services in a manner that has not been authorized by the content owner or service provider. Without limiting the foregoing, unless expressly authorized by the applicable content owner or service provider, you may not modify, copy, republish, upload, post, transmit, translate, sell, create derivative works, exploit, or distribute in any manner or medium any content or services made available through this product.

DECLARATION OF CONFORMITY

This product complies with the requirement of the related directives.

We: FUNAI ELECTRIC EUROPE Sp. z o.o.
ul. Inżynierska 1, 67-100,
Nowa Sól, Poland

declare that the following product:

Portable Blu-ray Disc Player
Model: PB1-M200
Trade Name: Funai

is in compliance with the related regulations.

CE

Web Site: http://www.funai.eu
© 2010-2011 FUNAI ELECTRIC All rights reserved.

Printed in China
1VMN30258 / X65A0ED ★★★★★
1VMN30258